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Field Crop Abstracts

A monthly journal compiled from the CAB ABSTRACTS database.
Produced by the DIVISION OF CROP PRODUCTION

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The staff of the Division of Crop Production prepare abstracts for the CAB ABSTRACTS database which are published in the three main monthly journals, *Field Crop Abstracts*, *Horticultural Abstracts* and *Herbage Abstracts*. These three journals together cover world scientific literature on cultivated crops as well as on wild plants of known economic importance.

Scope of *Field Crop Abstracts*: the subjects covered include the agronomy and biology of all annual field crops grown for food, fodder, oil and fibre, and of tobacco. Land use, farming systems, agricultural meteorology and the control of weeds, pests and diseases are dealt with in so far as they concern the crop coverage.

Field Crop Abstracts

Contents Volume 46

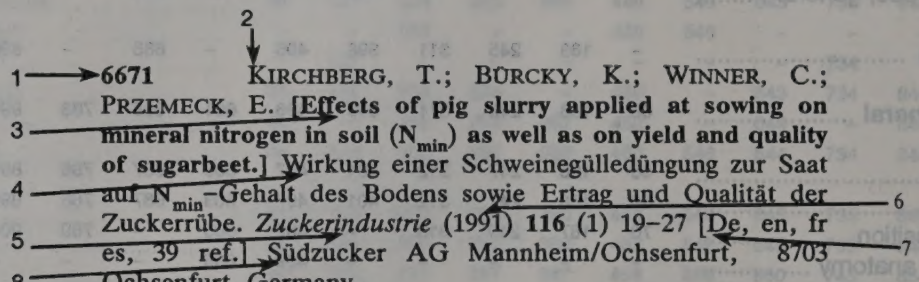
Cereals	1	77	175	257	319	409	507	611	695	797	907	1011
Wheat	1	77	175	257	319	409	507	611	695	797	907	1011
Oats	11	90	184	268	331	421	519	622	705	813	919	1024
Rye	12	91	185	269	331	422	520	623	706	814	921	1026
Triticale	13	91	185	269	332	422	521	624	707	815	921	1027
Barley	13	92	186	270	332	423	522	625	707	815	922	1027
Zizania spp	–	–	–	–	338	–	–	–	–	–	–	–
Maize	17	96	190	272	338	428	526	629	713	822	928	1032
Sweetcorn	24	107	197	279	349	437	534	635	–	831	939	1040
Rice	25	107	197	279	349	438	535	635	725	831	939	1040
Sorghum	31	119	202	282	354	446	542	642	730	841	945	1048
Pennisetum glaucum	33	121	204	283	356	449	545	643	733	846	949	1050
Panium miliaceum	–	–	204	–	–	450	546	–	–	–	950	1050
Panicum miliare	–	122	–	–	–	–	–	–	734	–	–	–
Eleusine coracana	34	122	204	284	–	450	–	643	734	846	950	1050
Minor cereals	34	–	205	284	357	450	–	644	–	846	–	–
Cereals, general	34	122	205	285	358	450	546	644	734	846	950	1051
Legumes	35	124	206	285	360	452	547	645	735	848	952	1053
Soyabeans	35	124	206	285	360	452	547	645	735	848	952	1053
Groundnuts	40	129	213	287	367	458	555	650	743	854	960	1058
Peas	40	131	215	288	370	459	558	652	744	857	963	1062
Vicia spp	43	133	219	291	372	462	562	655	748	861	967	1066
Phaseolus spp	44	134	219	292	374	465	563	656	749	862	968	1068
Vigna spp	45	137	221	295	377	467	566	658	751	864	972	1070
Cajanus cajan	47	139	222	296	378	470	570	661	754	867	973	1072
Cicer arietinum	47	139	223	296	378	470	570	661	755	868	973	1073
Lens culinaris	48	140	223	296	379	471	571	662	756	870	974	1075
Lupinus spp	48	141	224	296	379	471	572	663	756	870	975	1076
Minor legumes	49	141	–	297	379	472	572	663	757	871	975	1076
Legumes, general	49	142	224	297	379	473	573	664	758	871	976	1077
Root crops	50	142	225	297	380	473	574	665	759	872	976	1078
Sugarbeet	50	142	225	297	380	473	574	665	759	872	976	1078
Fodder beet	52	145	226	–	–	475	–	666	760	873	–	1080
Turnips and swedes	52	–	–	–	382	–	577	667	–	–	978	1080
Potatoes	52	145	226	301	382	475	577	667	760	873	978	1080
Sweet potatoes	55	147	233	302	386	482	583	673	770	877	981	1086
Cassava	55	147	–	303	387	482	584	673	770	877	981	1086
Dioscorea spp	55	148	–	303	387	483	585	–	771	878	982	1087
Colocasia esculenta	–	148	–	–	387	–	585	–	771	878	982	–
Xanthosoma spp	–	148	–	–	–	483	–	–	–	–	–	1087
Minor root crops	–	148	–	–	–	–	585	–	–	878	–	1087
Root crops, general	55	–	–	–	–	483	585	673	–	878	–	–
Fibre plants												
Cotton	55	148	233	304	387	483	586	673	771	878	982	1087
Fibre flax	57	152	235	306	389	486	589	676	773	–	985	1090
Cannabis sativa	57	153	–	–	389	–	589	676	–	–	–	–
Jute	–	153	235	–	389	486	589	–	773	882	986	–
Minor fibre plants	57	153	236	–	–	486	589	–	774	882	986	1091
Fibre plants, general	–	–	236	–	–	–	–	–	–	–	–	–

Oilseed plants												
Ricinus communis	58	153	236	–	389	487	589	676	774	882	986	1091
Sesame	58	154	236	306	390	487	590	677	774	882	986	1091
Oilseed flax	58	154	236	–	390	487	590	677	774	883	987	1092
Safflower	–	–	237	306	390	488	591	678	775	884	988	1092
Sunflowers	58	154	237	306	391	488	591	678	775	885	988	1093
Rape	60	156	238	307	392	488	592	679	776	887	990	1094
Minor oil plants	62	157	240	308	393	489	593	681	777	889	992	1096
Oilseed plants, general	63	158	–	308	394	491	594	681	778	890	993	1097
Miscellaneous crops	63	159	241	308	394	491	595	681	779	891	994	1097
Tobacco	63	159	241	308	394	491	595	681	779	891	994	1097
Fodder radish	–	–	–	–	–	493	–	–	–	–	–	–
Pseudocereals	64	160	244	310	397	493	597	682	781	892	996	1099
Sugarcane	65	160	244	310	398	494	597	683	781	894	997	1099
Miscellaneous crops, general	–	–	–	–	398	–	–	685	–	–	–	–
Green manures	–	163	245	311	398	496	–	685	–	896	999	1102
Field crops, general	66	163	245	311	399	496	601	685	783	897	999	1102
Crop botany	68	166	247	312	401	497	603	687	786	899	1002	1105
Physiology	68	166	247	312	401	497	603	687	786	899	1002	1105
Chemical composition	70	167	249	313	–	499	605	–	789	900	1003	1108
Morphology and anatomy	–	–	–	–	–	499	605	–	–	–	–	–
Mechanical and physical properties	–	–	–	–	403	–	–	–	–	–	–	–
Cell biology	70	–	–	–	–	499	605	689	789	–	1003	1108
Tissue culture	–	–	–	–	–	–	–	–	–	–	–	1108
Environmental factors	71	168	249	314	403	500	605	689	789	900	1003	1109
Symbiosis and nitrogen fixation	71	–	250	–	405	501	–	690	791	–	–	–
Radiobiology	–	–	–	314	–	–	–	–	–	–	–	–
Techniques and apparatus	72	168	251	315	405	501	605	690	791	901	1004	–
Storage	–	–	–	–	–	502	–	–	–	–	–	–
Weeds	–	169	251	–	405	–	606	–	–	–	–	1110
Pests and diseases	72	–	251	–	–	–	–	–	–	901	–	–
Surveys and land use	72	169	252	–	405	502	606	690	791	901	1005	1110
Farming systems	73	170	252	315	406	502	606	690	792	902	1006	1111
Soil and water conservation	–	170	–	315	–	–	–	–	–	–	–	–
Agricultural meterology	73	170	–	316	406	502	607	690	792	902	1006	1111
Miscellaneous	–	–	–	–	–	–	–	–	–	–	1007	–
Reports	74	171	253	316	406	503	607	691	792	902	1007	1111
Conferences	75	171	253	316	407	504	607	691	793	903	1008	1112
Books	75	172	254	317	407	505	608	692	794	904	1009	1113
AUTHOR INDEX	1117											
SUBJECT INDEX	1167											
List of source journals	i											

READERS' GUIDE TO ABSTRACTS

The layout of an abstract is indicated below:

1 Abstract number
2 Author
3 Title in English
4 Original title if in a Roman script language
5 Name of journal or other document
6 Year of publication, volume, part number and pagination
7 Language of text, and, in lower case, language(s) of summaries, followed by other bibliographic details
8 Address of first author
9 Abstract



1 **6671** 2 KIRCHBERG, T.; BÜRCKY, K.; WINNER, C.; PRZEMECK, E. 3 **[Effects of pig slurry applied at sowing on mineral nitrogen in soil (N_{min}) as well as on yield and quality of sugarbeet.]** 4 Wirkung einer Schweinegülledüngung zur Saat auf N_{min}-Gehalt des Bodens sowie Ertrag und Qualität der Zuckerrübe. *Zuckerindustrie* (1991) **116** (1) 19–27 6 [De, en, fr es, 39 ref.] 7 5 Südzucker AG Mannheim/Ochsenfurt, 8703 Ochsenfurt, Germany. 8

9 In 7 field trials near Göttingen in 1985–87 and 2 near Bassum in 1986–87, at a wide range of soil fertility levels, sugarbeet was given pig slurry supplying 72–343 kg NH_4-N/ha, 40–200 kg mineral N/ha or combinations of slurry and mineral N. Soil mineral N content was closely related to slurry rate. Measurements in May showed 12–88% recovery of NH_4-N applied in slurry; this was always less than after application of similar amounts of inorganic fertilizer N. Where no organic manure had been used for many years, sugar yields with slurry were as high as or higher than those with inorganic N and root quality was better. To achieve max. sugar yield, higher N rates were required where slurry was used and N uptake and apparent utilization were always less than from comparable amounts of inorganic N. Where slurry had been used for many years or the soil had a high humus content, slurry had little advantage over inorganic N.

For non-serial publications such as books, transliterated titles are given for languages in Cyrillic or Greek scripts

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The author and subject indexes for the twelve monthly parts are cumulated to provide annual indexes. Terms used in the indexes are taken from the CAB Thesaurus, 1990 edition.

AUTHOR INDEX

Aach, H. 8133
Aalbersberg, W. G. L. 3036
Aamlid, T. S. 4197
Aarle, P. G. M. van 112
Aartrijk, J. van 4095
Aasen, I. 2556
Abadía, A. 3261
Abadía, J. 3261
Abashkin, V. N. 106
Abawi, G. S. 3554
Abawi, G. Y. 6595
Abayomi, Y. A. 3787
Abbas, M. 1176
Abbas, M. A. 8453
Abbott, A. J. 413
Abbott, L. K. 3091
Abd, R. 1484
Abd-Alla, M. H. 1055, 7553
Abd Alla, S. A. 7874
Abd-El-Al, M. H. 3702
Abd-El-Rahem, H. M. 3133
Abd-El-Rahman, A. A. M. 4115
Abd-Elfattah, A. 3469
Abdalla, A. M. M. 4565
Abdallah, M. 5155
Abdel-Aal, S. A. 2936
Abdel-Aal, S. M. 5716
Abdel-Ahmed, H. R. 1753
Abdel-Aziz, I. M. 3232
Abdel-Aziz, M. O. 5775
Abdel-Fattah, A. 150, 370
Abdel Gawad, A. M. 8464
Abdel-Gawad, A. S. 3760, 3832-3833
Abdel-Ghani, A. M. 2462
Abdel-Kader, A. E. M. 3699, 3709
Abdel-Malak, K. K. I. 3699, 3709
Abdel Monem, A. M. 3927
Abdel Monem, M. 2005, 7987
Abdel-Nour, A. A. M. 1753
Abdel-Razik, M. 8125
Abdel-Reheem, S. 288
Abdel-Rehim, M. F. 3407
Abdel-Shafi, A. 3121
Abdou, R. F. 3635
Abdu-Shakra, S. 7678
Abdul Hafez, A. M. 7776
Abdulai, A. 3102
Abdullaev, A. 1824, 8106
Abdullaev, A. A. 3712, 8616
Abdullaev, M. A. 6139
Abdurakhmanova, Z. N. 3712, 8106, 8616
Abe, H. 229
Abe, J. 805, 6841
Abe, K. 1574
Abe, M. 5600, 6019
Abe, N. 6533
Abe, T. 6396
Abe, Y. 4408
Abebe, M. 1996-1997
Abed, M. A. 5568
Abedin, M. Z. 4368
Abernathy, J. R. 4517
Ablett, G. R. 1613
Abo-Hamed, S. A. 326
Abodia, J. 6160
Abou-Deya, I. B. 5933
Abou-Fakher, M. 4744
Abou Kresha, M. A. 7749
Abouda, S. E. K. 1018
Abraham, C. T. 7414
Abraham, K. 4510
Abrahamson, S. L. 484
Abrams, G. D. 2570
Abrams, S. R. 2570
Abramycheva, N. Yu. 3186, 8184
Abrecht, D. G. 5607
Abrol, Y. P. 1656, 3579, 5341, 8829
Abu-Shakra, S. 7679
Abuldahab, A. 2913
Abulnaja, K. O. 2559, 7593
Acciarri, M. 2204, 2232
Acciarri, N. 2202, 2204, 2231-2232
Acebes, J. L. 6807
Acevedo, E. 2050
Achal Shah 4417
Acharya, H. S. 4648
Acharya, N. 7493
Achuthan, M. 8723
Ackermann, F. 8057
Acock, B. 3704
Acosta, M. 2261
Ács, G. 4838
Acuña, O. 2241
Acutis, M. 7519
Adachi, T. 7387, 7404
Adak, M. S. 1093
Ádám, A. 5466
Adam, G. 1703, 5897
Adam, L. R. 5208
Adame-Beltrán, E. 3412, 6600
Adamiak, E. 2267
Adamiak, J. 2267
Adamonytė, G. 5148
Adamov, O. M. 5593, 7357
Adams, C. J. 5086
Adams, J. F. 4277, 6711
Adams, M. A. 1109
Adams, R. 8135
Adams, W. W., III 2986, 3837
Adamsen, F. J. 767
Adamska, I. 6732
Adamson, H. 7273-7274
Adamu, C. A. 1253
Adavani, M. R. 3485
Adcock, K. G. 7187
Addae, P. C. 4761
Addy, S. K. 3354
Adelfa Hernández, A. 7400-7401
Adham, K. G. 4364
Adhikari, K. 6418
Adhikary, S. 7381
Adil, M. L. 3356
Adiningsih, J. S. 8753
Adiputra, I. G. K. 2077
Adjei, M. B. 3039
Adriaanse, F. G. 771
Adu, J. K. 6678
Aducci, P. 8183
Adugna Wakjira 8383
Advani, M. R. 461, 1188
Adygezalov, V. F. 5893
Aerolovich, H. M. 8293
Afandi, F. 7108
Aflakpui, G. K. S. 6417
Aflyatunova, R. G. 3706
Afolabi, O. A. 3031
Afridi, M. M. R. K. 4002
Afzal, M. 7666
Afzal, S. 1876
Agache, C. 7150
Agaev, A. 3420
Agafonov, V. V. 4110
Agapov, V. I. 645
Agarie, S. 6547
Agarwal, K. N. 5876
Agarwal, M. M. 31
Agarwala, S. C. 3753, 4017, 5130, 8729
Agasimani, C. A. 1014, 7571
Agassi, M. 3703
Agata, W. 1081, 6547, 7733
Agazio, M. de 8178
Agboola, A. A. 1162
Agendes, M. O. de O. 275
Aggarwal, G. C. 3929
Aggarwal, N. 3600, 4394
Aggarwal, R. K. 5568
Aggarwal, S. C. 4073
Agnal, M. B. 5680
Agnew, J. 6610
Agnihotri, B. 5139, 5903
Agnihotri, N. P. 4957
Agnihotri, Y. 2099
Agong, S. G. 5296
Agostino, A. 2619
Agrawal, A. P. 7410
Agrawal, H. O. 5982
Agrawal, M. 1075, 2244
Agrawal, M. L. 1273, 1290
Agrawal, P. K. 5083
Agrawal, R. 2697, 3801
Agrawal, S. B. 2244
Agrawal, Y. C. 8525
Agriculture International 1780, 1927
Agtunong, T. P. 5084
Agui, I. 7814
Aguiar, M. 315
Águila, H. 8730
Aguilar, R. 2616
Aguilar Santelises, A. 8059
Aguirrezabal, L. A. N. 8664
Ahlawat, I. P. S. 1243, 1868
Ahlawat, T. R. 1334
Ahlrichs, J. L. 7209, 7456
Ahmad, A. 4807
Ahmad, B. 1876
Ahmad, F. 1105, 2115
Ahmad, H. K. 1397
Ahmad, I. 7779
Ahmad, M. 5232, 8692
Ahmad, M. H. 2878
Ahmad, N. 2633, 3055, 6628, 7035, 8626
Ahmad, R. 75, 2257
Ahmad, S. 8575
Ahmad, Z. A. 5640
Ahmadi, M. 7300
Ahmed, F. E. 5106
Ahmed, I. U. 7387
Ahmed, J. 5372
Ahmed, K. Z. 679, 3958
Ahmed, M. 1019, 7560, 7714
Ahmed, M. A. 1509
Ahmed, M. K. 8115
Ahmed, S. A. 4296, 5184
Ahmed, S. N. 5298
Ahuja, K. N. 3949, 6277
Ai, Y. C. 1025
Aichberger, K. 7079
Aiken, R. M. 3072
Ailincăi, D. 3279, 7327
Ainouz, I. L. 1085
Aiyer, R. S. 6880
Ajakaiye, C. O. 6784
Ajay Singh 3354, 3845
Ajit Singh 3577, 5113, 5887, 6793, 8244
Akama, Y. 1557-1558
Akao, S. 1660, 5778
Akasaka, K. 499
Akatse, J. K. 6736
Akatsuka, T. 4935, 7430
Akazawa, T. 4952, 8311
Akcenov, S. M. 5426
Åkerlund, H. E. 5986
Akhmed, M. 2450
Akhmedov, A. A. 5436
Akhtar, T. A. 6481
Akhtaruzzaman, M. 5000
Akhter, F. 859
Akhter, S. 5372
Akhundova, V. A. 2226
Akihisa, T. 2898, 6825, 6988
Akimova, T. V. 1434, 3195
Akita, K. 832, 3347, 3399
Akita, S. 7379
Akohoue, S. 6971
Akoroda, M. O. 4697
Akram, H. 1176
Aksenova, N. P. 414, 3679, 8585
Al-Abdulsalam, M. A. 5403
Al-Janabi, S. M. 1649
Al-Jasim, A. A. 5403
Al-Karaki, G. N. 556
Al-Khatib, K. 2856, 5464
Al-Masoum, A. A. 3555
Al-Menoufi, O. A. 8430
Al-Mulhim, F. N. 8119
Al-Rawi, A. 2598
Al-Subu, M. M. 5066
Al-Tahir, M. A. 7287
Al-Tahir, O. A. 5403, 7287, 8119
Ala, P. 1454
Alabi, S. O. 1819
Alagawadi, A. R. 256
Alagcan, M. 770
Alam, A. 4308
Alam, K. 1993
Alam, S. M. 2043, 2098
Alba, E. L. 4590
Alban, C. 2831
Alberici, R. 7268
Albersheim, P. 5800, 8701
Albertano, P. 8731
Albineį, E. 385, 2904, 7797
Albores, M. 2616
Albrecht, K. A. 977, 2375
Albuquerque, I. M. de 356
Albuquerque, T. T. de O. e 4254
Albus, W. 338
Alcántar González, G. 8059
Alcantara, A. J. 4681
Alcarde, J. C. 4616-4617
Aldridge, C. D. 2574, 6551
Aleem, M. M. A. 2462
Alegre, J. C. 4653
Alekhin, V. I. 8760
Alekhina, N. D. 1418, 3818, 7170, 8619
Aleksakhin, R. M. 3086
Alekseeva, V. R. 5458
Alelign Kefyalew 2019
Alem Berhe 7620
Aleshin, E. P. 2151, 2682, 8230
Alessandroni, A. 2060
Alexander, D. 912, 6528
Alexander, G. 7422
Alexeev, A. A. 5046
Alexieva, V. 2624, 8131, 8732
Alexieva, V. S. 5796
Alfoldi, Z. 2114
Alfonso, M. 5153
Alfonso, R. 4149
Ali, A. 184, 845, 6481, 6491, 8626
Ali, A. M. A. S. 2462
Ali, H. 8607, 8620
Ali, L. 184, 845, 6481, 6491
Ali, M. 3616, 3789, 5830-5831, 7629
Ali, M. S. 4400, 5372
Ali, N. 3036
Ali, R. Z. 7884
Ali, S. A. 1290
Ali, S. M. 7601
Ali, S. S. 184, 845, 6481, 6491
Ali-Khan, S. T. 2825
Alia 2349, 4583
Aliev, D. A. 3086, 5436, 8494
Aliev, L. A. 5893
Aliev, N. A. 1816, 3706
Alieva, E. I. 6143
Alipbekov, O. A. 3844, 4782
Alizaga, R. 1766, 2246
Aljamal, J. A. 8191
Aljunabi, A. S. 2598
Alla, S. A. A. 7874
Allakhverdiev, S. 8409
Allakhverdiev, S. I. 4298
Allam, S. A. H. 6058
Allan, E. J. 4799
Allan, R. E. 6272
Allavena, L. 5553
Allen, A. K. 4479

Allen, E. J. 1767, 6850
Allen, J. F. 6714
Allen, L. H., Jr. 2159
Allen, R. D. 4604
Allen, V. G. 574
Allender, W. J. 3721
Alleyne, J. C. 5544
Allison, M. F. 384
Allmaras, R. R. 7208
Allurwar, M. W. 5116
Almeida, J. M. 2113
Almeida, L. A. 4983
Almeida, L. M. 8516
Alonso, R. 2747
Aloui, B. 252
Aloy, M. 119
Alozie, S. O. 422
Alscher, R. G. 2213
Alse, S. B. 6949
Alse, U. N. 7785
Al'shevskiĭ, N. G. 2927
Alston, A. M. 3084, 6181
Alston, D. G. 5735
Alström, S. 5493
Altamura, M. M. 1891, 3774
Altı, A. 1443
Altier, L. S. 4886
Altschuler, Y. 7197
Alvarado, J. N. 4652
Alvarado, J. R. 1553
Alvarado-Carrillo, M. 6615-6616
Alvarez, A. M. 1786
Alvarez, F. 3793
Alvarez, L. A. 1185
Alvarez V., V. H. 939
Alvino, A. 343, 941
Alwashe, M. A. 3857
Aly, O. M. 5683
Alyoshin, E. P. 2685
Alyoshin, N. E. 2685
Al'zhapparova, Zh. K. 3493, 8344
Alzubaidi, A. 2598
Amadi, A. 823, 5572
Amâncio, S. 7348
Amanuel Gorfu 1974, 1981, 1985, 2008
Amaral, A. dos S. 5667
Amaranath, K. C. N. 1619-1620
Amarasiri, S. L. 2668
Amare Gizaw 7620
Amaregouda, A. 3920
Amarjit Singh 704
Amati, M. 5216
Amato, M. 6470
Ambard-Bretteville, F. 1795
Ambassa-Kiki, R. 1022
Ambe, J. T. 1162
Amberger, A. 8008
Ambrish, K. 4553
Ambrogio, E. de 8029
Ambrosano, E. J. 1716
Ambrosio, L. 2747
Ambruš, J. 8145
Amelin, A. V. 2218, 3528, 4299, 4301, 5791
Amer, S. M. 7310
Ames, R. N. 2878
Ameziane, T. E. 968
Amien, L. I. 1021, 8394
Amijee, F. 3560
Amin, M. 4368
Aminu-Kano, M. 4684
Amir, J. 654
Amirov, M. B. 2429
Amma, S. 1127-1129
Amodeo, G. 5071
Amorim Neto, S. 4111
Ampong-Nyarko, K. 4148, 6540
Ampornpan, L. 238
Amrhein, N. 3678, 8621
Amzallaz, G. N. 4182
An, K. Y. 7865
Anaele, A. O. 273, 2714
Anahosur, K. H. 4175
Anand, S. C. 1623, 4984-4985
Anand, S. K. 8559
Anandan, S. 3244
Anan'ev, G. M. 3850
Ananthanarayana, R. 3410
Ananyev, G. 8409
Anastassiou, R. K. 7641
Anaya, A. L. 8192
Anazodo, U. G. N. 8597
Anbazhagan, M. 924
Ancheta, O. 509
Anderegg, R. 998
Anders, M. M. 8367
Andersen, A. 5498
Andersen, B. 4030, 6383
Andersen, J. B. 4030
Andersen, M. N. 1480, 4840
Andersen, R. A. 2185
Andersland, J. M. 5811, 6730
Anderson, G. W. 1511, 6417
Anderson, J. A. D. 8565-8566
Anderson, J. C. 5039
Anderson, J. D. 1890, 6093
Anderson, J. J. 3176
Anderson, J. M. 1035, 2826
Anderson, J. V. 2213
Anderson, J. W. 2077
Anderson, R. L. 1405
Anderson, W. K. 6127
Andersson, G. 3762
Andersson, T. 2431, 5269, 7117
Ando, H. 232
Ando, T. 3429, 5691
Andrade, A. 6065
Andrade, C. de L. T. de 817
Andrade, F. H. 8196
Andrade, J. M. V. de 7127
Andrade, M. J. B. de 4335
Andrade, W. E. de B. 4111
Andraski, B. J. 6464
Andraski, T. W. 3272, 7318
Andrawis, A. 6909
Andreenko, T. I. 1148, 1788
Andreescu, E. 7508, 7915
Andreeva, I. N. 374, 8352
Andreeva, T. F. 3758, 6982, 8687
Andrei, E. 3741
Andreica, A. 6279
Andreitchenko, E. A. 1302
Andrén, O. 8001
Andreo, C. S. 5581
Andres, J. C. 8461
Andrews, A. S. 6595
Andrews, C. J. 3749
Andrews, M. 266, 4742
Andrews, S. B. 7442, 8218
Andrews, T. J. 3769
Andrianarison, R. H. 2848
Andrieu, B. 2916
Andriĭchenko, E. A. 1302
Andrushchenko, V. N. 4433
Angadi, S. S. 5679
Angadi, V. V. 1750, 5779, 6794
Angeletti, G. 2206, 2231-2232
Angelini, R. 8178
Anghinoni, I. 2097
Angiras, N. N. 6966
Anglani, C. 7451
Angle, J. S. 5555, 6682
Angonin, C. 2470
Angrish, R. 3345, 4109
Anh Thu Pham Thi 3824
Aniche, G. N. 3385
Anikeeva, N. F. 2890
Anikst, D. M. 729
Anilakumar, K. 8229
Anishchenko, N. I. 5074
Anisimov, A. V. 4868
Anisimov, I. P. 1596
Anisimovienė, N. 4329
Aniskin, V. I. 85
Anitha, P. C. 7583
Ankaiah, R. 1732
Ankalkopee, M. N. 1271
Anken, T. 7299
Ankomah, A. B. 279
Annamalainathan, K. 1314, 2254
Annapurnamma, T. 8638
Anoop Singh 4921, 6447
Ansari, A. H. 2316, 3471, 8455
Ansari, S. A. 5128
Antapa, P. L. 1978
Antil, R. S. 5568, 6447
Antipchuk, A. F. 3617
Antony, A. 6005
Antoun, H. 125
Anuradha, M. 3611
Anyama, D. 353
Anyan, W. R. 8341
Ao, G. M. 4483
Aoki, H. 2660, 6870
Aoki, N. 5339
Ap Rees, T. 3070, 8172
Apel, K. 117
Apel, P. 1254
Apetroaei, S. 815
Aphalo, P. 347
Appelqvist, L. Å. 2973
Appezzato, B. 1666
Appleby, A. P. 3165
Apti, R. 7849
Aragaki, K. 271
Aragüés, R. 119, 1485, 5471, 8142
Arai, S. 1574, 5600
Arai, Y. 5035
Arain, A. 185
Arain, M. R. 1380
Araki, H. 1404, 7741
Araki, M. 1681
Araki, T. 6017
Araújo, G. A. de A. 4335
Araus, J. L. 739, 2071
Arazi, Y. 6877
Arbiol, R. 7955
Archer, J. R. 588
Archetti, R. 8121
Archilletti, T. 3774
Ardila, F. J. 1152
Arellano V., J. L. 8193
Arene, O. B. 4697
Arenu, J. A. 1491
Argentina, Instituto Nacional de Technología Agropecuaria 8005
Argentina, Instituto Nacional de Tecnología Agropecuaria, Estación Experimental Agropecuaria Manfredi 7253, 7632, 7803, 7821
Argyroudi-Akoyunoglou, J. H. 6754, 7102, 7641
Arias, F. J. 1058
Arias F., J. 4448
Arif, I. 8096
Arifin, S. 1266
Arima, S. 838
Ario, T. 5243
Aripdjanov, S. A. 1194
Aripdzhanov, Sh. A. 1194
Arizal, R. 846
Arjunan, A. 3403
Arkadova, N. I. 7483
Arkuska, V. E. 554
Arlotto, M. A. 5855
Armbrust, D. V. 7462
Armour, J. D. 403
Armstrong, F. 8438
Armstrong, H. 6667
Armstrong, M. J. 384
Armstrong, R. 7556
Armstrong, R. D. 7919
Armstrong, R. J. 2189
Armstrong, W. 2623, 4932
Armuzzi, C. 961, 3919
Arnao de Nue, I. 6104
Arnold, R. L. B. 2707
Arnon, I. 4705
Arnozis, P. A. 2497
Arntzen, F. K. 1146
Aroña, M. 1850
Aronson, J. 582
Arora, B. R. 236, 3909
Arora, C. L. 3930, 5025
Arora, J. 6606
Arora, J. K. 5881
Arora, M. 4912
Arora, S. K. 4170
Arora, V. K. 6, 5411
Arozarena, N. J. 4456
Arrendell, S. 5968
Arrese-Igor, C. 3168
Arrigoni, O. 3989
Arrio-Dupont, M. 4960
Arró, M. 1884
Arruda, F. B. 1715
Arruda, P. 6104-6105
Arsana, W. D. 4630
Arslanova, S. V. 6035
Arteca, R. N. 2424, 5853
Artemenko, E. N. 3493, 8344
Arthur, M. A. 3987
Artner, C. 5354
Artus, N. 6298
Artus, N. N. 1408
Artyushenko, A. A. 3
Arulnandhy, V. 3467, 8356
Arulswamy, S. 7857
Arunachalam, G. 5297
Arvidsson, J. 3085
Arvidsson, Y. B. C. 3769
Arvind Kumar 3001
Arvy, M. P. 6753
Arya, I. D. 7014
Arya, M. P. S. 5706
Arya, O. N. 3447
Arya, R. L. 8284
Asada, J. 3297, 4058
Asahi, T. 2951, 5243
Asaliev, A. I. 4091
Asami, T. 6396
Asaoka, M. 2953
Asborno, M. D. 945
Aschermann-Koch, C. 6238, 6308
Asefa Taa 1974, 1981, 1985, 2008
Asfaw Telaye 7620
Asghar, R. 1746
Asher, C. J. 3066
Asher, M. J. C. 5379
Ashihara, H. 4658, 4997
Ashley, R. A. 2651
Ashly, D. A. 5761
Ashok Yadav 4174
Ashraf, M. 1088, 1745, 4159, 4591
Ashraf, M. Y. 1436, 2471, 5450, 5693
Ashton, I. P. 2559
Ashworth, E. N. 687
Aslam, M. 740, 7495
Asmatoddin, M. 7500
Aspinall, D. 3243
Asrar, M. 8079
Assadian, N. W. 8605
Asselin, A. 7069
Assibi, M. A. 6703
Assis, F. N. de 4181
Assmann, S. M. 2228, 3548, 5064, 8434
Astakhova, N. V. 74
Astolfi, S. 8097
Aswathaiah, B. 3338
Aswathanarayana, S. C. 8261
Atabani, I. M. A. 2798
Atale, S. B. 634, 3592
Atar Singh 5, 6412, 7380
Atero, B. 2727
Athayde, A. 3566
Athayde, J. T. 3566
Athayde, M. L. F. 4248
Athinarayanan, R. 7855
Atkin, O. K. 8057
Atkins, C. A. 3499
Atkins, C. J. 6598
Atkins, R. S. 382
Atkinson, C. J. 1918, 2572, 4562, 5135
Atkinson, D. 6965
Atre, A. H. 3417
Atta, M. 4627, 5313, 7884
Atta-Krah, A. N. 7304
Attarde, D. R. 4040
Atwal, A. 4359, 7677
Atwal, A. S. 2434
Atwell, B. J. 8793
Atzema, A. J. 5460
Auerbach, R. M. B. 782
Aufhammer, W. 39, 336, 497, 3126, 7116, 7119
Augé, R. M. 4373
Augur, C. 5800
Aujla, S. S. 2464
Aulakh, H. S. 2464
Aulakh, M. S. 278, 6142

Auld, D. L. 1856-1858
Aune, J. B. 2729, 4189, 4638
Aurisano, N. 4754
Aušiñrienė, G. 3950
Australia, Bureau of Sugar Experiment Stations 3865
Australia, CSIRO Division of Plant Industry 1403, 4527, 8645
Australia, Department of Primary Industry and Fisheries 4690
Australia, Institute for Sustainable Agriculture 583
Australia, New South Wales Department of Agriculture 8491
Australia, Northern Territory, Department of Primary Industry and Fisheries 1952, 3866
Australia, Queensland Department of Primary Industries 8094, 8491
Autkar, K. S. 6888
Autrey, L. J. C. 587, 787
Avakyan, E. R. 2685
Avazov, B. 6907
Avdeev, Yu. S. 5171
Aveline, A. 289
Avenido, R. A. 351
Averbeke, W. van 4845
Averina, N. G. 4021, 5449, 8307
Avigliano, M. 6996
Avrov, O. E. 5426
Avtar Singh 3213
Awasthi, A. K. 5314, 6237
Awasthi, C. P. 5139, 5903
Axelson, R. D. 6898
Axiotis, S. 2831
Ayars, J. E. 2957-2958
Aycock, M. K., Jr. 6086
Ayele Badebo 2039
Ayers, P. D. 2240
Ayiecho, P. O. 5296
Ayisi, K. K. 1108, 1110, 4407
Ayling, S. M. 4018, 7346
Aylmore, L. A. G. 3606-3607
Ayorinde, F. O. 3031
Ayyad, M. 8125
Azad, A. S. 5129, 7588
Azad, B. S. 878
Azad, P. K. 6412
Azaizeh, H. 159
Azam, F. 2140
Azam-Ali, S. N. 2880, 5110
Azanza, J. L. 2346
Azarov, B. F. 3886
Azeem, M. 7092
Azevêdo, D. M. P. de 7759, 7766
Aziz, M. O. A. 5775
Azmi, A. R. 5450, 5693
Azmi, M. 3375, 4127
Azooz, R. H. 130
Azovtseva, A. P. 3984
Azuma, S. 3368
Ba, M. R. 4811
Baadsgaard, A. 93
Babadoost, M. 3242
Babadzhanova, M. A. 8618
Babakov, A. V. 8184, 8189
Babakov, V. P. 8807
Babalad, H. B. 1014, 8654
Babar, S. S. 8651
Babarina, É. A. 1305
Babb, J. C. 5463
Babczinsky, J. 7285
Babić, L. 3010, 3010
Babich, A. A. 8324
Babich, G. A. 3932
Bablad, H. B. 7571
Babu, E. 4749
Babu, R. S. 1709
Babu, S. S. 8483
Babu, V. R. 7407-7408
Bac, S. 2504, 6179, 7094
Bacchi, Mo. 8670
Bacchi Lazzari, L. 3919, 6631
Bacci, L. 254, 2789
Bačić, G. 4085
Back, J. H. 8212
Baco, D. 1571
Bacon, P. J. 8075
Bacon, R. K. 90, 8091
Badawi, M. A. 779
Badawy, F. H. 2796
Badea, E. M. 2047
Badebo, A. 2039
Bader, G. 6958
Badhe, N. N. 4118
Badiane, M. 2592
Bado, B. V. 2600
Badshah, A. 8692
Badshah, N. 8589
Badwal, S. S. 1248
Baek, G. J. 1028
Baek, S. B. 3254
Baenziger, P. S. 108
Baer, D. von 5899, 7979
Baerdemaeker, J. de 7057, 7110, 7374
Baethgen, W. E. 2723
Bagayoko, M. 975
Bagchi, D. K. 6822, 7206, 7381
Bagdady, N. H. 8170
Bagde, T. R. 6779
Bagdonas, A. 5149
Bagdonienė, V. 5330
Bagga, A. K. 5856
Baggerud, C. 1864
Baggerud, K. 4577
Baggett, J. R. 341, 8405
Baghdady, N. H. 2611
Bagheri, A. 7601
Baginsky G., C. 5^
Bagni, N. 6173
Bagrintseva, V. N. 29
Bagulho, F. 735
Bagyaraj, D. J. 239
Bahadur, B. 6307, 7834
Bahia Filho, A. F. de C. 2092, 7453
Bahl, P. N. 2884
Bahri, A. 3603
Bahry, R. W. 726
Bai, B. Z. 6662
Bai, N. R. 216
Bai, R. K. 1548
Bai, X. Y. 2437
Bai, Y. Y. 4360
Baidu-Forson, J. 7473
Baier, J. 1760
Baierová, V. 1760
Baig, M. B. 822
Baig, M. M. A. 2316
Baig, N. A. 2471
Bailey, B. A. 1890, 6093
Bailey, L. D. 6935-6936, 7044
Bailey, M. A. 5916
Bailey, R. J. 3638, 3642, 8747
Bailey-Serres, J. 4865
Bain, H. 3674
Bains, K. S. 5726
Bairamov, Sh. M. 8494
Baird, L. M. 8341
Baisakh, B. 4226
Bajaj, K. G. 1841
Bajaj, Y. P. S. 6216
Bajpai, K. K. 7026
Bajpai, M. 1209-1210, 3321
Bajpai, M. R. 5398
Bajpai, R. K. 7399, 7838
Bajpai, R. P. 643, 4644, 5704, 5789, 6137, 7125
Bajpai, S. L. 7405
Bajracharya, B. 3508, 5512, 5619, 7049
Bajwa, M. A. 4627
Bajwa, M. I. 6520
Baker, B. L. 4884
Baker, C. K. 120
Baker, D. N. 5235
Baker, J. B. 1561, 4129, 4132
Baker, J. E. 3022
Baker, J. M. 2792
Baker, J. T. 2159
Baker, K. D. 7313
Baker, N. K. 1628
Baker, N. R. 2125, 3171, 6281, 8084, 8764
Baker, W. H. 285
Baketa, E. 7007
Bakhramov, A. 3710
Bakhramov, K. 3710
Bakir, S. 7958
Bakker, P. A. H. M. 5204
Bakó, L. 812
Bakrim, N. 4960
Bakum, N. V. 393
Balachandran, P. V. 7652
Balagurova, N. I. 1434
Balaji, P. 6072
Balakhnina, T. I. 3259, 8140
Balakumar, T. 5864
Balashova, T. K. 5458
Balássy, Z. 4574
Balasubramanian, M. 1111, 1621
Balasubramanian, P. 2655
Balasubramanian, R. 524
Balasubramanian, V. 8477
Balasubramaniyan, P. 186
Balasubramanya, R. H. 1821
Balaswamy, K. 1544
Balatti, P. A. 3502, 6681
Balba, A. M. 3911
Balcells, L. 4313
Balchin, D. 3264
Balconi, C. 6450
Baldelli, C. 7454
Baldet, P. 2831
Baldev Singh 2537
Baldini, M. 7802
Baldocchi, D. D. 2791
Baldos, D. P. 781
Baldwin, J. L. 4131
Baldy, C. 6643
Băleanu, M. 160
Bali, A. S. 5090, 5547, 6428
Bali, M. 3723
Baligar, V. C. 691, 851, 3197, 7209, 7453, 7456
Balikai, R. A. 5882
Balke, N. E. 2526, 3216
Ball, K. 3823
Ball, S. F. L. 3879
Balmas, V. 737
Balogh, A. 51
Baltensperger, D. D. 7009
Balusek, K. 5818
Baluška, F. 1524, 6469
Balwinder Singh 3418, 8389
Balyan, R. S. 644, 1034, 5429, 8492
Bamforth, I. 6713
Ban, M. G. 1028
Ban, Y. S. 3007
Banakar, A. S. 4387
Banaś, A. 42
Bancal, P. 5440
Banciu, T. 126
Bandarian, V. 4864
Bandel, V. A. 5555
Bandopadhyay, P. 8642
Bandurski, R. S. 1532
Bandyopadhyay, S. K. 6261
Banelis, A. 6846
Banerjee, A. 6822
Banerjee, R. N. 7206, 7381
Banerjee, S. K. 4949
Banfield, J. 2528
Bang, J. K. 5274, 6903, 7844
Banga, S. K. 1248
Bangar, K. C. 4738
Bangar, K. S. 506, 1280, 6115-6116, 7523, 8710
Bangarwa, A. S. 4080
Bangarwa, K. S. 3119
Banger, K. C. 3907
Bangerth, F. 5807
Banks, H. J. 6595
Bannikova, V. P. 1420
Bano, A. 4943, 6563
Banowetz, G. M. 3187, 8071
Bansal, K. N. 6927, 7788, 7902
Bansal, N. K. 7840
Bansal, R. K. 3603
Bansal, R. L. 210, 2452, 2489, 4908
Bansal, Y. K. 1102
Bansod, A. V. 877
Banuelos, G. 484
Banuelos, G. S. 6971
Banville, G. J. 4467
Banwart, W. L. 2190
Bany, T. 8553
Banzhaf, J. 5695
Bao, G. L. 871
Bao, X. M. 5745
Bapat, D. R. 6619
Bar-Ness, E. 1189, 2609
Bar-Tal, A. 776
Bar-Yosef, B. 6445, 8556
Baragengana, R. 2007
Barakat, M. I. E. 3461
Barakhtenova, L. A. 5062
Baranova, L. A. 1944
Baranovskiĭ, V. N. 3698
Barasebwa, L. 1969
Baravelli, M. 7268
Barbato, R. 8407
Barber, J. 317-318, 1965, 3117, 8407
Barber, K. L. 2596, 6582
Barber, S. A. 181, 775, 1052, 3263
Barbier-Brygoo, H. 1882
Barcellos, G. B. S. 4409, 8516
Barceló, J. 5357
Barchukova, A. Ya. 2682
Barciszewska, M. Z. 2262
Barciszewski, J. 2262
Barclay, J. S. 2651
Barekzai, A. 1386
Baret, F. 569, 3096
Barg, R. 8126
Bargale, M. 5886, 7991
Bari, V. di 7, 1590, 3044
Bari, Y. U. 823
Barik, T. 833, 7403
Barker, P. J. 168
Barlow, E. W. R. 8077
Barlow, P. W. 1524, 5596, 6469, 6474, 8665
Barna, B. 5466
Barna, K. S. 7671
Barneix, A. J. 2497, 8055
Barnes, A. 8039
Barnes, C. E. 4529
Barnes, M. F. 4742
Barnes, P. W. 3408
Barnes, R. F. 3883
Barnett, A. G. 3110
Barnett, R. D. 2525, 4806, 6245
Barnola, P. 6013-6014
Baronchelli, M. 7268
Baroova, S. R. 8457, 8742
Barr, R. 1636, 8342
Barraclough, P. B. 661, 3182
Barradas, M. T. 735
Barratt, D. H. P. 7603
Barre, A. 8450
Barreto, H. J. 3980, 5571
Barrett, M. 3876
Barrientos, A. 439
Barrière, Y. 6459
Barris, B. S. 7017
Barros, A. C. de 2763, 4988
Barros, L. C. G. 7631
Barros, N. F. 798
Barrow, K. D. 2866
Barrs, H. D. 7945
Barry, R. G. 2426
Barse, M. M. J. de 112
Barshchak, T. 6251
Barsky, E. L. 2827
Barsoom, S. W. 3542
Barsukov, S. S. 6424
Barszczak, T. 2348, 6251
Barszczak, Z. 2348
Barta, I. C. 3094
Bartel, W. 2926
Barthakur, N. N. 7556
Barthe, P. 5265
Bartholomé, E. 571
Barthou, H. 4249
Bartók, T. 679
Barton, D. L. 1860
Barton, K. 4781
Bartos, A. 6052
Bartoš, J. 8806
Bartošová, Z. 1760
Baruah, B. P. 4134

Baruah, K. K. 4723
Baruzzini, L. 4470
Barve, B. V. 2883, 6804
Baryeh, E. A. 7742
Baryshnikova, N. P. 5074
Barz, W. 6808, 7670
Basak, N. C. 1231
Basak, R. K. 6772
Basalyga, S. 532
Basarkar, P. W. 676, 4278
Basavanna, P. 2315
Basavarajappa, R. 4555
Bashan, Y. 3977, 4786
Bashar, M. K. 1559
Bashir, M. A. 3413
Bashir, M. I. 8464
Bashist, D. P. 6932
Basilio, C. 4681
Basilious, S. I. 3709
Baskaran, G. 5118, 5889
Basnet, S. R. 6187-6188
Basra, A. S. 2327, 3714-3715, 4079, 6036
Bassarab, S. 1663
Bassett, D. L. 2584
Bassi, K. 5629
Bassi, M. 1042, 4602
Bassi, R. 6441-6442
Bassignana, M. 7264
Bassil, N. V. 8449
Basso, B. 449, 8030
Basso, F. 449, 1373, 8030
Bassoi, L. H. 5550
Bassouni, A. H. 2462
Bastia, D. 6503
Bastia, D. K. 6504
Bastiaans, L. 8246
Bastiman, B. 467
Basu, N. 4949
Basu, R. N. 5480
Basuchaudhuri, P. 5783
Basuki 8522
Basyony, A. E. 3461
Baszyński, T. 5576
Batchelor, C. H. 7099
Bate, N. J. 2861
Batey, I. L. 699
Bathgate, A. D. 5910
Bathkal, B. G. 3788, 7747
Bationo, A. 2722-2723, 3507, 6780, 7575
Batista, C. M. 1071
Batista-Viera, F. 4245
Batra, A. 3732, 3761
Batra, R. K. 564
Batra, V. K. 5939
Batra Amla 3732, 3761
Batta, L. 2794
Batten, G. D. 231
Battey, N. H. 168
Battistelli, A. 298
Batts, G. R. 4324
Batz, O. 2557
Bätz, W. 3659-3660, 3687, 4458
Bauder, J. W. 4732
Baudet, L. 4100
Bauer, A. 5534, 7994
Bauer, P. J. 4516
Bauerle, C. 4303
Bauernfeind, R. J. 8040
Baulcombe, D. 666
Bavel, M. G. van 6911
Beachy, R. N. 6881
Beard, J. B. 3883
Beaton, J. D. 2180, 6518
Beator, J. 6734
Beauchamp, C. J. 5358
Beauregard, M. 2392
Beavis, C. H. S. 7109
Becana, M. 2184, 6828
Becherer, J. D. 998
Bechtel, D. B. 3189
Bechtold, P. 2124
Beck, D. L. 1513
Beck, D. P. 2887, 7108
Beck, L. R. 1948
Beck, R. H. 4053
Becker, K. H. 3921, 3933
Becker, M. 4911, 7406
Becker, R. 6159
Becker, T. W. 7349
Beckett, R. P. 690
Becu, C. 4414
Bedenko, V. P. 2029
Bedin, P. 5178
Bedinger, P. 167
Bedinger, P. A. 1521, 2120
Bedmar, F. 1220
Bee, S. K. 7848
Beecroft, P. 7071
Beeghly, H. H. 4222
Beer, J. W. 8150
Beevers, H. 1114
Beffagna, N. 745
Begemann, F. 6789
Begum, Z. N. T. 859
Behaeghe, T. 5366-5367
Behera, A. K. 6638
Behera, B. 7386, 7397
Behera, B. K. 4912
Behera, U. K. 5405, 7126
Behl, R. K. 7177
Behringer, F. J. 2837, 5808
Bei-Paraskevopoulou, T. A. 6754
Beiss, U. 3625, 3632
Beja, O. 5457
Bejoy, M. 8599
Bekele, I. 6439
Bekele, T. 5573
Bekele Geleta 2024
Bekes, F. 699
Belabbes, K. 1009
Belal, M. H. 288
Belavanaki, L. N. 5681
Belay, G. 2018
Belchenko, G. G. 7732
Belcher, A. R. 413
Belcher, S. 8404
Belford, R. K. 5401, 5473-5474, 6214
Belgium, Provinciaal Onderzoek- en Voorlichting-scentrum voor Land- en Tuinbouw Beitem-Roeselare 7969
Bell, C. I. 5154
Bell, E. 2062
Bell, J. N. B. 2056
Bell, K. L. 6591
Bell, M. J. 309-310, 5786
Bell, P. F. 1253, 1887
Bell, R. W. 7691
Bell, W. E. 1043
Belletti, A. 1586, 1833
Bellincampi, D. 8701, 8789
Bellinder, R. R. 4465, 8567
Bellott Montalvo, J. 4651
Belmar N., C. 3887
Belocchi, A. 7986, 7997
Belonogova, V. A. 5446
Belopukhova, Yu. B. 5176
Belorkar, V. T. 6531, 6893
Belotti, J. 7705
Belova, N. A. 6914
Below, F. E. 149, 2487, 2613, 8158
Belozersky, M. A. 8704
Belsare, W. V. 6925-6926
Beltran, J. P. 5806
Beltrão, N. E. de M. 428, 7759, 7766
Belward, A. S. 570, 572, 1369
Belyanskaya, S. L. 1577
Ben-Asher, J. 8393
Ben-Hur, M. 3703
Ben-Moshe, E. 8631
Ben-Naceur, M. 7658
Benati, R. 295
Benbi, D. K. 6246
Bender, G. L. 2055
Bender, J. 5087, 7648
Bender, M. 4835
Bendigeri, A. V. 5305
Benedičič, D. 5989
Benedictos, P., Jr. 5198
Beneytout, J. L. 2848
Bengough, A. G. 7731
Bengtsson, A. 1233, 7139, 7235, 7585, 7822
Benhamou, N. 5800
Beni, G. 961, 3919
Benincasa, F. 254
Benites, J. R. 6134
Benito, M. I. 6456
Beniwal, M. S. 647
Beniwal, S. P. S. 7620
Benjamin, J. G. 5543
Benkenstein, H. 92, 7234, 7730
Bennemann, N. B. 2352
Bennet, M. 7791-7792, 7899
Bennet, R. J. 2111
Bennett, J. 543
Bennett, J. M. 5617
Bennett, M. D. 1422, 6745
Bennett, R. B. 6435
Bennicelli, R. 4033
Bennici, A. 3783, 7004
Bennie, A. T. P. 46, 660
Bennink, M. R. 5840
Benson, E. E. 234, 906
Benson, J. A. 2448
Benson, M. 4561
Benson, V. W. 3270
Bento, H. 7360
Benveniste, P. 802
Benz, J. S. 416
Benz, R. 8191
Benziman, M. 4020
Beraud, J. 4471
Berde, S. 135
Berengena, J. 1932
Berenshteĭn, I. B. 4110
Berezkin, A. N. 1384, 4760
Berezkina, L. L. 1384, 4760
Berg, A. A. van den 420
Berg, A. van den 1160
Berg, J. van den 243
Berg, K. van den 1701
Berg, W. van den 4294
Bergamaschi, H. 297
Bergareche, C. 2847
Berge, H. F. M. ten 7416
Bergen, C. W. M. van den 3662
Berger, G. 7897
Berger, M. 5737
Berger, S. 4309
Berger, W. 3291
Bergman, D. K. 4536
Bergman, J. W. 3924
Bergmann, H. 102
Bergmann, W. 8834-8835
Bergstrom, G. C. 648
Berhe, A. 7620
Beringer, H. 1306
Berke, T. G. 108
Berkowitz, G. A. 682
Berlato, M. A. 297
Bernal-Lugo, I. 155
Bernardi, G. 7997
Bernardo, S. 5548
Bernardová, H. 1755
Bernier, F. 7194
Bernier, G. 6986
Berry, D. F. 778
Berry, J. A. 2132, 7530
Berry, J. O. 7872
Berry, W. L. 55
Bers, E. P. 5057
Bertani, A. 2680, 4754, 8254
Bertholeau, J. C. 6459
Bertolini, J. M. 2300
Bertoni, G. M. 5900
Bertrand, M. 7639
Bertrand, R. 1358
Bertsch, P. M. 6294
Bertuzzi, P. 306
Besford, R. T. 6343
Besheit, S. Y. 7699
Bessanova, N. N. 7222
Bessembinder, J. J. E. 6884
Bester, C. 420
Bethenod, O. 2300
Bethlenfalvay, G. J. 4373
Bettin, D. 4943
Betz, M. 1483, 2563
Beuerlein, J. E. 25, 7300
Beuselinck, P. 6971
Beusichem, M. L. van 144, 4694
Bevan, M. 1792
Beven, A. F. 2356
Beveniste, I. 8775
Beverly, R. B. 1365, 8521
Beversdorf, W. 5276
Beversdorf, W. D. 1613
Beyene, H. 7620
Beynon, S. 2704
Beyrouty, C. A. 3343, 3380, 4251, 5767
Bezborodov, A. 1174
Bezborodov, G. 1174
Bezrukova, M. V. 7205
Bezsilko, V. S. 1447
Bhadoria, R. B. S. 8514
Bhadrapur, T. G. 5681
Bhagat, K. L. 878
Bhagat, R. M. 6264
Bhagwan Singh 5648, 8319
Bhagwandin 4036
Bhagwat, A. S. 6452
Bhagwat, K. A. 924, 1578, 5672
Bhajan Singh 3418
Bhakare, H. A. 1831
Bhalerao, P. D. 2804, 4215, 7054, 8371
Bhalerao, R. K. 1841, 7443
Bhalsingh, S. M. 6644
Bhambie, S. 5934
Bhambota, V. K. 3213
Bhan, S. C. 4758
Bhan, V. M. 1034, 8244
Bhandal, I. S. 4785
Bhandari, A. L. 6425
Bhangoo, B. S. 884
Bharad, G. M. 3788, 7747, 7751
Bharadwaj, G. S. 6075
Bharaj, T. S. 4915
Bharat Singh 5039
Bhardwaj, H. 1644-1645
Bhardwaj, S. N. 6992
Bhargava, B. S. 7036
Bhargava, M. 5894
Bhargava, R. 5201
Bhargava, S. C. 5166, 5247, 5941, 6851, 6876, 6992
Bhargava, S. S. 4188
Bharti, S. 1589, 4396-4397, 5827, 6061, 6798, 8289
Bhaskar, A. S. 7857
Bhaskar, V. 5278
Bhat, M. G. 7765
Bhat, M. L. 1423
Bhat, R. G. 7602
Bhati, D. S. 6782
Bhati, T. K. 8515
Bhatia, A. K. 5937
Bhatia, D. S. 5032
Bhatia, K. S. 4036
Bhatnagar, G. S. 2575, 2882
Bhatnagar, P. S. 985, 8313
Bhatnagar, V. K. 5705
Bhatt, J. C. 1555
Bhatt, J. G. 1195
Bhatta, B. 1967
Bhattacharjee, D. P. 6564
Bhattacharya, B. 6822, 7800
Bhattacharya, I. D. 122
Bhattacharya, N. C. 6185
Bhattacharyya, L. 7538
Bhattacharyya, P. K. 1622
Bhattarai, M. R. 6187-6188
Bhattarai, T. 8085
Bhatti, A. U. 2448, 7934
Bhawsar, R. C. 2463, 3156
Bhaya, G. P. 6145
Bheemaiah, G. 2881
Bhelkar, M. V. 6779
Bhinder, S. S. 5959
Bhoite, A. G. 8281
Bhola, A. L. 1249, 6074
Bholah, M. A. 401, 4615
Bhopal Singh 5894, 6253
Bhosale, A. S. 6692
Bhosale, B. B. 8661
Bhosale, R. H. 3736
Bhosle, B. R. 8733, 8741
Bhowmik, N. N. 6856, 7800
Bhoyar, V. S. 6516
Bhudayal 7909
Bhuiyan, N. I. 206, 854
Bhunia, A. 4949

Bhunia, S. R. 402, 1742, 6823, 7055
Bhupender Singh 564, 6178
Bhupesh Mangla 7665
Bhushan, L. S. 1348, 2427
Bhushan, V. S. 1672
Bi, X. Z. 6555
Bialek, K. 2864, 5839
Bian, J. 6995
Bian, Y. 6552
Biancardi, A. 8104
Bianchi, A. A. 7451, 8027, 8121
Bianchi, M. 3919, 6631
Bianchi, M. de L. P. 2782
Bianchi, P. 3919
Biancolatte, E. 2021, 3919, 6631
Biasi, M. G. de 8097
Bicki, T. J. 6438
Bicknell, D. 2406
Bicudo, S. J. 1975
Bidinger, F. R. 5703
Bidwell-Schrader, A. M. 820
Biederbeck, V. O. 4710, 7044
Biedermannová, E. 136
Biel, C. 8452
Bieler, P. 5703
Bielewicz, J. 2994
Bielka, S. 3999
Biemond, H. 1150-1151
Bienfait, J. M. 8162
Bigelli, G. 2203
Biggar, J. W. 946
Bihler, E. 1610, 1936
Bijay Singh 236
Bilanski, W. K. 3457
Bilapate, G. G. 8661
Bilbro, J. D. 460, 7462
Bileka, A. M. 1800
Billard, J. P. 7292, 8536
Bille, S. W. 1704
Billore, S. D. 987, 5886, 7991, 8322
Bilsborrow, P. E. 4568
Bilushi, S. V. 8189
Bindi, M. 260
Bindra, A. 6952
Bindra, A. D. 7804
Binford, G. D. 151, 797
Bingham, I. J. 8045
Binns, M. R. 4270
Biot, Y. 2407
Biradar, D. P. 451, 6054, 6057, 7806
Birani, V. 2231
Birari, S. P. 3584, 4367
Bird, P. R. 2406
Birner, T. P. 8204
Bisby, F. 6824
Bischoff, J. 3644
Bischoff, K. P. 4631
Bishnoi, K. C. 5113
Bishnoi, L. K. 6028
Bishnoi, N. R. 5137
Bishnoi, O. P. 3440, 4586, 4758, 5113
Bishnoi, S. K. 5740
Bishnoi, U. R. 273, 2714
Bishop, A. 5897
Bishop, A. C. 5957-5958
Bishop, J. D. 4572
Bisht, J. K. 980
Bisht, S. S. 2612
Bisseling, T. 8527
Bisset, L. 266
Bist, B. S. 5960
Biston, R. 8162
Biswapat Mandal 5423
Biswas, A. K. 1836
Biswas, B. C. 1308, 6522
Biswas, J. C. 1559, 6480
Biswas, P. K. 1498, 6243
Biswas, S. 6011
Biswas, V. R. 6006
Bittencourt, J. F. N. 4563
Bityutskil', N. P. 3814
Biuletyn Instytutu Hodowli i Aklimatyzacji Roślin 3159, 3222-3223, 3235-3236, 3284, 4013, 4325, 4445
Björkman, O. 1822
Björkman, P. O. 8590
Black, A. L. 5534, 7994
Black, C. 6792
Black, C. R. 2171-2172, 6792
Black, M. 6342
Blackbourn, H. D. 168
Blackman, S. A. 2787
Blackmer, A. M. 797, 1503-1504, 2084, 4057
Blackshaw, R. E. 4035
Blackwell, B. A. 5484, 7812
Blackwell, R. D. 540
Blade, S. F. 3580
Bladier, C. 5991
Blaga, G. 146, 573
Blaga, L. 146
Bláha, L. 1607, 1609
Blair, D. H. 1662
Blair, G. J. 626
Blakeley, S. D. 1203
Blakeney, A. B. 231
Blamey, F. P. C. 2486, 2820, 3066, 7172, 7577-7580
Blamowski, Z. K. 469
Blancard, D. 1958
Blanchet, R. 459
Blanco Vicente, M. 7545
Bland, W. L. 2792, 3081, 5689, 6912, 7467, 8625
Blanshard, J. M. V. 2953
Blatt, C. R. 2469
Blatt, M. R. 8438
Blatz, A. 2347
Blaylock, A. D. 2093
Błażej, J. 2258
Blée, E. 4995, 5002, 8338
Bleichert, E. 2260, 4403
Blein, J. P. 487
Blevins, D. G. 1633, 1752, 4422, 5862
Blight, G. W. 6588
Blobel, G. 7598
Bloc, D. 2090
Bloom, A. J. 4019
Blouet, A. 674
Blouin, P. 4731
Blowers, M. H. 6281
Bludau, D. 8282
Blum, A. 680, 3436, 6321
Blum, D. E. 5843
Blum, W. E. H. 5557
Blumenthal, A. 5457
Blumenthal, C. S. 8077
Blumich, B. 8832
Blumwald, E. 3627
Blundell, T. L. 1683
Board, J. E. 979, 1011, 1653
Boaretto, A. E. 1708
Boari, F. 5348
Bobák, M. 8207
Bobde, G. N. 6483, 6515
Bobrikova, E. T. 2512
Bobylev, G. S. 1148, 1788, 5072
Bobyr', L. F. 8408
Bock, B. R. 2596
Böddi, B. 6298, 6301
Bodiuzzaman, M. 850
Bodrero, M. L. 1007
Bodria, L. 7110
Bodson, B. 617
Boe, A. 522
Boekema, E. J. 8415
Boer, H. G. de 7024
Boerma, H. R. 5734, 5761
Boerma, M. 2299, 2939
Boersma, L. 4756
Boese, L. 5347
Boesen, B. 8758
Boeva, N. P. 4771
Bogaci, R. 7512
Bogale, T. 7901
Bogdan, G. P. 1197
Boggini, G. 1417, 3919, 6631
Bogomazov, N. P. 1758, 6834
Bogomolov, A. V. 393
Bogorad, L. 4595
Boguslawski, E. von 7916
Böhlke, M. 575
Bohlmann, H. 117
Bohlool, B. B. 586, 1754, 6763
Böhme, G. 6180
Boiardi, J. L. 6759
Boiffin, J. 2269, 2288
Boĭko, E. V. 8129
Boinski, J. J. 7872
Boisvert, J. B. 5942
Bojarczyk, M. 978
Bojňanská, T. 6363
Bojö, J. 752, 8312
Bokhari, A. Y. 3857
Bokhari, M. H. 1745
Boland, W. 4307
Bolgiano, A. P. 5776
Bolland, M. D. A. 1455, 3604-3605, 3810, 5419, 5481, 6258-6259, 7187
Boller, T. 5528-5529
Bollich, C. N. 8237
Bollich, P. K. 4121, 4125, 8238
Bollini, R. 344, 2236
Bolwell, G. P. 4479
Bommineni, V. R. 6462
Bona, L. 691, 7174
Bona, S. 8, 301, 670
Bonari, E. 7917
Bonczkowski, L. C. 2162
Bondar', V. A. 4269
Bondar, V. V. 6715
Bonde, W. C. 6026
Bonder, V. V. 738
Bondok, M. A. 3541, 7626-7627, 7755-7756
Bonetti, A. 4346, 7081
Bonetti, R. 4223
Bonetto, L. 3049
Bonetto, L. A. 2803
Bonetto, L. L. A. 7505, 8376
Bonfante-Fasolo, P. 4423
Bonfils, A. C. 3759
Bongiovanni, R. 2803
Bongiovanni, R. G. 7505
Bonhomme, R. 826, 2644, 7101
Bonifacio, E. 3335
Bonilla, J. J. 8543
Bonnemain, J. L. 3113
Bonner, D. M. 6940
Bonnet, P. 487
Bonnett, G. D. 7270-7271
Bonny, S. 6250
Bonsi, C. K. 3691, 4495
Bonte, D. R. la 8595
Bonte, J. 348
Boonman, J. G. 4701
Boote, K. J. 2159, 3882, 4252, 5752
Booth, E. J. 1854, 6066
Boparai, B. S. 1407, 3915
Boquet, D. J. 4522
Bora, K. K. 3515
Borah, B. K. 4628
Borchert, S. 4302
Borel, M. 7540-7541
Borges, J. W. M. 4341
Borget, M. 4700
Borghi, B. 961, 2020, 2067, 3919, 6631, 8029
Bori, G. 7519
Borie B., F. 3978
Borin, M. 301
Boriskin, N. T. 7222
Borisova, N. I. 7483
Borisova, T. A. 3310
Borkar, D. H. 6779
Borkird, C. 3400
Borkis, E. N. 4727
Borkovec, V. 4765
Born, W. H. vanden 2553
Börner, A. 713, 7130
Bornman, J. F. 6974
Bornman, J. J. 3143
Borodin, V. B. 3525
Borole, D. H. 7876
Boronat, A. 4313
Borovoi, V. V. 3266
Borówczak, F. 2273
Borowska, J. 2900
Borowski, E. 469
Borraccino, G. 4474
Borromeo, E. S. 6541
Borthakur, B. K. 4134
Bortoletto, N. 1715
Bortolo, R. 2564
Borty, M. K. C. 1015
Boruah, D. P. 4628
Bos, B. 1130
Bosch-Serra, D. 2071
Böse, G. 8133
Bose, K. 1836
Bosma, A. H. 7110
Bosnes, M. 1481
Bošnjak, D. 6642
Bosque-Vega, A. 8598
Bossen, M. E. 5453
Bossio, D. A. 4009
Bostock, R. M. 5191
Botanikai Közlemények 1957
Botes, J. H. F. 65
Botha, A. D. P. 1321
Botha, F. C. 2862
Bothe, H. 4093
Bothmer, R. von 751, 3262
Botía, J. M. 2261
Botswana, Ministry of Agriculture 3867
Bottazzi, P. 4295
Bottcher, A. B. 6121
Böttger, M. 1636, 3299, 4082, 5612
Bottomley, P. A. 4330
Boucaud, J. 4441, 8769
Boucher, B. D. 6598
Bouchet, Y. 2402
Boudet, A. 491
Boudet, A. M. 1010
Boulby, G. L. 4731
Bouldin, D. R. 3881
Boulton, E. L. 2211
Bouma, J. 2948
Bouman, B. A. M. 1763, 2917, 4442, 5159, 7950-7951
Bounif, M. 8017
Bourassa, J. 125
Bourgeais-Chaillou, P. 1652, 4266
Bourland, F. M. 5223, 6899
Bourne, D. J. 2866
Bousqué, I. 3972
Bouthier, A. 34, 68
Boutin, J. P. 1036
Boutry, M. 8437
Bouttier, C. 2995
Bouwkamp, J. C. 1815
Bouzayen, M. 1720
Bouzerzour, H. 1401, 1466
Bovelli, R. 3783
Bowen, W. T. 6430
Bowerman, P. 1050
Bowers, J. L. 3581
Bowman, D. T. 307
Bowman, H. F. 3924
Bowsher, C. G. 2211, 5801
Bowyer, J. R. 7595
Box, J. E., Jr. 3193, 8087
Boya-Meboka, M. 3697
Boydston, R. 2856
Boyer, J. 5365
Boyer, J. S. 6666
Bozcuk, S. 8141
Braam, F. 8565-8566
Bradford, K. J. 2573
Bradford, S. 1173
Bradley, J. R., Jr. 989, 5735, 6655
Bradner, N. R. 3473
Bradshaw, N. J. 5976
Braga, G. L. 2782
Braga, J. M. 6608
Braga, N. R. 3468
Bragachini, M. 3049
Bragachini, M. A. 2803, 7505, 8376
Brahmachari, V. S. 5965
Braidot, E. 6724, 7604
Braim, M. A. 721-722
Brain, P. 5596
Bramm, A. 5788
Branca, C. 1042, 4602
Brand, M. D. 7722
Brandt, S. A. 521
Brannon, T. 8693
Brar, A. S. 3700, 7169

Brar, G. S. 942
Brar, H. S. 8493
Brar, J. S. 4355, 5127, 6769
Brar, K. S. 4532
Brar, L. S. 772, 8242, 8683
Brar, M. S. 7169
Brar, S. P. S. 3418
Brar, Z. S. 4724
Brathwaite, R. A. I. 6439
Brauer, D. 4072, 6451
Brauer, D. K. 5582
Braun, H. 4429
Braun, H. P. 7725
Braunberger, P. G. 2647
Brauner Nygaard, K. 6069
Braunová, Z. 3011
Bravi, R. 7246, 7997
Brawley, P. W. 7526
Bray, C. M. 54, 3937, 8076
Brazhenko, I. P. 383
Brazil, Empresa Catarinense de Pesquisa Agropecuária 1063
Brears, T. 1323
Breen, C. M. 2111
Breen, P. J. 8690
Bregitzer, P. 3258, 7286
Bregt, A. K. 701
Brei, V. V. 7697
Breiman, A. 5457
Breitenbeck, G. A. 4522
Bremen, H. 4685
Bremer, E. 2453
Brena, B. 4245
Brendecke, J. W. 6898
Brennan, E. 1077
Brennan, R. F. 1391, 1396, 2004, 2451
Brenner, M. L. 2216, 3488, 3492, 3668, 8419
Bressan, R. A. 6099, 7869
Breton, J. 6731
Breton, J. C. 7798
Breve, M. A. 466
Brewer, C. F. 7538
Brewin, N. J. 4423
Brewster, B. D. 3165
Brick, M. A. 4372, 7638
Bridgemohan, P. 6439
Bridigit, T. K. 6528, 8463
Brier, H. B. 2770
Brierley, E. R. 3665
Briggs, D. E. 2565
Briggs, K. G. 2041, 2467, 6293
Briggs, W. R. 1925, 2217, 5812
Brightman, A. 1636
Brightman, A. O. 1647, 8342
Briner, H. U. 2372
Brinholi, O. 4621
Brinkley, W. E. 5570
Brinkman, M. A. 2375
Brinkmann, H. 3896
Brinkmann, K. 7722
Brisibe, E. A. 4634
Brisson, N. 306, 1518
Bristow, K. L. 2642
Britten, C. J. 1721
Britton, G. 4308, 8831
Britton, M. G. 2994
Britz, S. J. 8348
Brivio, P. A. 3859
Brkić, M. 3010
Broceño, C. 5583
Brock, T. G. 2686, 6756
Broder, M. F. 5570
Brodrick, S. J. 3560, 4337
Brodskii, M. V. 7966
Broekman, R. 2057
Bromilow, R. H. 4546, 6920-6921
Broner, I. 4841
Brooks, P. D. 565
Broom, L. 242
Brosch, G. 2117
Brosio, E. 2251, 8472
Brosnan, J. M. 394, 4435
Brough, E. J. 7109
Brough, S. H. 5110
Broughton, S. 8349
Brouillette, J. N. 6875
Brouquisse, R. 799, 2615, 5575
Brovkin, V. I. 1604
Browaldh, M. 339
Brown, A. 8099
Brown, A. H. 6062
Brown, C. M. 3923
Brown, C. S. 3533, 6762
Brown, J. C. 2061, 6158
Brown, J. E. 2308-2309
Brown, L. C. 761
Brown, M. J. 4449, 4646
Brown, M. S. 4373
Brown, R. B. 4255
Brown, R. E. 6416
Brown, R. M., Jr. 6031-6033
Brown, S. M. 1671
Browse, J. 544, 5797
Broyakovskaya, K. N. 1132
Bruce, B. D. 329
Bruchou, C. 8209
Brück, H. 8170
Brückner, C. 5531
Bruckner, P. L. 4806
Bruening, W. 2753
Brüggemann, W. 1751, 7660
Bruggen, E. F. J. van 4473
Bruijnzeel, L. A. 1967
Bruin, S. de 1949
Brukwicki, T. 6819
Brûlé-Babel, A. 3221
Brümmer, G. W. 3198
Brummett, D. L. 7769
Brun, A. 4471
Brunel, J. P. 896
Brunet, Y. 2643
Bruni, F. 2628
Brunini, O. 2123
Brunn, S. A. 327
Brunner, B. R. 4798
Brunold, C. 2614, 5588
Brunotte, J. 5920
Brunova, T. M. 7732
Bruns, R. E. 1071
Bruns, S. 2840
Brusa, P. 4314
Brush, R. A. 8108
Bruun, L. 6096
Bruyere, A. 628
Bruyn, A. de 4414
Bryant, D. C. 2320, 3902
Bryant, J. A. 6723
Bryant, K. J. 3270
Bryantseva, Z. N. 5062
Bryce, J. H. 4824
Brzóstowicz, A. 7946
BSES 3865
Buay Singh 3131
Bubar, C. J. 3925
Bubar, J. S. 2469
Bucci, G. 1042
Buchanan, B. B. 51
Buchanan, M. 8558
Buchholz, D. D. 7316, 8157
Buckhout, T. J. 390, 2915
Bucks, D. A. 5406
Budaev, B. Kh. 7718
Budhar, M. N. 2879, 4894
Budhisantosa, H. 6120
Budkevich, A. A. 6002
Budnik, H. 8560
Būdvytytė, A. 6737
Budzherak, A. I. 554
Buehler, E. G. 1521
Bueno, M. 2256
Buerkert, A. 5695, 6751
Buffa, G. 7247
Bugarčić, Ž. 405-406
Bugbee, B. 3853, 6332
Bugrova, V. V. 3162
Buhler, D. D. 3474
Buhtz, E. 5347
Buitrago, I. C. 4353
Bujak, K. 7988, 8113
Bujnovský, R. 6182
Bukashkina, Z. V. 6914
Bukhareva, N. S. 622, 3137
Bukhareva, T. Yu. 3706
Bukhov, N. G. 738
Bukhtiar, B. A. 7678-7679, 7779
Bukovac, M. J. 3585
Bulan, P. 6636
Bulatkina, N. Yu. 3501
Bulavīna, T. M. 4005
Bulbule, A. V. 8251, 8263
Bulens, J. D. 701
Bulgakov, V. M. 3698
Bulhões, L. H. 1975
Bulisani, E. A. 1716, 3468
Bulleid, N. J. 54
Bullock, D. G. 4567, 5569
Bullock, R. C. 3583
Bulman, P. 5504
Bulman, P. A. 2406
Bulyga, N. L. 4725
Buman, R. A. 2472
Bunce, J. A. 4241, 6184
Bundy, L. G. 3272, 7318
Bunescu, H. 146, 573
Bunescu, V. 573
Bunpromma, K. 4544
Buntin, G. D. 4806
Buntukova, E. K. 3529
Bunyaviroj, T. 2703
Buonaccorso, V. 4295
Burakhanova, E. A. 6842
Burch, L. R. 2301, 6868
Burden, R. S. 88
Buresh, R. J. 8231
Bürger, K. H. 3681
Burgess, C. L. 5034
Burgos, P. A. 7814
Burhan, H. O. 5403
Buriro, U. A. 1380
Burke, J. I. 7250
Burke, J. J. 2833, 4604, 5053, 8623-8624
Burke, S. J. A. 2406
Burkhart, W. 294, 998
Burleigh, J. R. 3056
Burmester, C. H. 1183, 7768
Burnell, J. N. 2116, 7929
Burnell, J. R. 2095
Burner, D. M. 3800
Burnett, D. S. 5199
Burns, J. C. 4067
Burrill, A. 8803
Burrows, V. D. 2522-2524
Bursakov, S. A. 3172
Burygin, A. M. 3842
Bus, C. B. 1791
Busch, C. 1483
Bush, D. S. 5530, 5711
Bush, T. D. 7526
Bushby, H. V. A. 3573
Bushuk, W. 905
Busnyuk, V. V. 6818
Busolo-Bulafu, C. M. 6710
Buta, J. G. 1532
Buthov, N. G. 6715
Butler, D. G. 602
Butler, L. G. 3431
Butler, R. 413, 5596
Butnik, A. S. 7942
Butorina, E. P. 4736
Butt, V. S. 1687
Buttar, G. S. 5414
Butter, N. S. 1187
Butterfield, R. E. 2516
Buttery, B. R. 2189, 5763
Buzás, I. 5508
Buzhenko, V. F. 646
Buzurukov, È. 1182
Buzza, G. 8676
Buzzell, R. I. 2189, 5763
Byaloŭ, G. D. 4426
Byous, A. W. 8521
Byrd, G. T. 5336
Byrnes, B. H. 8223
Byrnes, S. M. 2892
Byskov-Nielsen, S. 5517-5518
Bystrova, E. I. 5593, 7357
Byth, D. E. 5764
Cabalceta, G. 1579
Cabané, M. 1010
Cabelguenne, M. 459, 681, 698
Cabello, R. 1545
Cabeza, C. 66, 1432
Cabezas, F. 7908
Caboche, M. 4599
Cabral, F. 8508
Cabrera, F. 3278
Cabrera, M. L. 3275
Cacciatori, T. 2202, 2231
Cachiță-Cosma, D. 250
Cacnio, V. N. 853
Cadavid, L. F. 4507
Cade, J. W. 3110
Cadilhac, J. L. 7856
Caelles, C. 4313
Caemmerer, S. von 3453, 3769
Caetano-Anollés, G. 302, 6679
Cai, D. T. 6529
Cai, G. X. 2591
Cai, H. F. 4699
Cai, J. J. 3014
Cai, J. Y. 5748
Cai, J. Z. 6552
Cai, M. T. 359, 359
Cai, T. 3431
Cai, X. 1713, 4340
Cai, X. N. 8265
Caiola, M. G. 8731
Caires, E. F. 7582
Cairns, A. J. 267
Cairns, A. L. P. 3181
Cakmak, I. 1066, 4338, 7180
Calatayud, A. 3217
Calcagno, F. 2046
Caldiz, D. O. 618, 623
Caldwell, A. G. 1011, 1653
Calheiros, R. de O. 6171
Caligiuri, M. 5164
Calip-DuBois, A. 7520
Callander, B. A. 1350
Callewaert, D. 8402-8403
Callimassia, M. A. 6745
Callow, J. A. 5390
Calus, A. 7969
Calvert, O. 7006
Calvet, J. C. 8353
Calzecchi-Onesti, B. 3774
Camacho, L. 5899
Camargo, C. E. de O. 1376
Cambridge, M. L. 4696
Cameron, D. W. 5804
Cameron, J. 413
Camilleri, P. 7595
Campanile, R. G. 700
Campbell, C. A. 1377, 3145, 3180, 3903-3904, 4710, 4728
Campbell, C. G. 3777
Campbell, D. 532
Campbell, D. A. 4856
Campbell, D. J. 1810, 1934
Campbell, L. G. 3624
Campbell, W. H. 7353
Campen, D. R. van 2391
Campenot, M. K. 5604
Campiglia, E. 1844
Campillo, E. del 1068
Campos, J. L. 6343
Campos, N. 812, 5591
Campos, R. 5899
Campos, T. G. da S. 426
Canada, Agriculture Canada 2410, 3215, 3869
Canada, Agriculture Canada Research Branch 8809
Canada, Atlantic Corn Hybrid Evaluation Committee 4853
Canada, Canadian Department of Agriculture 8093
Canada, Ontario Ministry of Agriculture and Food 7096
Candido, V. 343
Candilo, M. di 4334
Canini, A. 8731
Cannon, J. M. 8595
Canny, M. J. 5340
Cano, M. A. O. 986, 1074
Canson, C. de 2795
Cantarella, H. 1903
Cantliffe, D. J. 4501, 7376, 7735
Cantone, F. 961, 3919, 6631
Cantrell, R. G. 4529
Cantuel, J. 348
Canullo, G. H. 1673
Cao, G. C. 1984
Cao, L. Y. 8213
Cao, S. Q. 6523
Cao, W. X. 409, 409, 4488
Cao, X. Z. 2918
Cao, Y. Z. 1025, 4670

Cao, Z. H. 5621
Cao, Z. X. 6774
Capellen, O. 164, 177
Capezio, S. 2937
Capitani, F. 1891, 3774
Caplan, A. 3400
Caporali, F. 1844
Cappaert, M. R. 4454
Cappellen, O. 2088
Caramete, C. 7326, 7507-7508, 7915
Caras, M. 7711
Carberry, P. S. 3725-3727, 5607, 6045-6046, 7464-7466
Carbonell, J. 2215
Carcamo, R. 6881
Carde, J. P. 5575
Carden, E. L. 4237
Cardi, T. 1044, 1084
Cardoso, A. A. 4513
Carefoot, J. M. 40
Carlini, C. R. 4409
Carlone, G. 8400
Carlson, G. C. 2781
Carlson, G. R. 77, 3924
Carlson, T. N. 2637
Carman, J. G. 6315
Carmi, A. 4519, 6755
Carmona, M. J. 8066
Carneiro, J. A. 4409
Carnielli, A. 4983
Carnovale, E. 2251
Carpen, A. 1747
Carpita, N. C. 4672, 5440, 6099, 7194, 8171
Carr, P. M. 77, 931
Carr-Smith, H. D. 3959
Carrasco, P. 2215
Carrasco-Luna, J. 3217
Carrijo, O. A. 331
Carrillo Amaya, J. S. 4050
Carrión, M. 7398
Carrizo, R. 2803
Carroll, K. K. 712
Carrubba, A. 8666, 8669
Carsky, R. J. 6430, 7378, 7433
Carter, D. 2702
Carter, D. C. 933
Carter, J. V. 8586
Carter, M. R. 720, 6233
Carter, N. 1457
Carter, P. R. 759, 1492, 3265
Carter, S. E. 2421
Carter, T. E., Jr. 8350
Carter, T. R. 2645
Cartrysse, C. 1225
Carvalho, A. M. de 5550
Carvalho, H. 5291
Carvalho, J. G. 1546
Carvalho, J. R. P. 851
Carvalho, V. D. de 2311
Cary, E. E. 3207
Casabianca, H. 68
Casady, W. W. 4977
Casali, V. W. D. 4513
Casallo, A. 4011
Casals, M. L. 681
Casano, L. M. 4794
Casanova, E. 283
Casanova O., E. 3811, 5561-5562
Casarini, B. 4295, 4334
Casas-Carrillo, G. 4963
Case, S. E. 1459
Cash, J. N. 407
Cashman, P. 7959
Casini, C. 2803
Casini, P. 5164
Caşpar, I. 7484
Cass, A. 2642
Cass, D. D. 5604, 5751, 6458, 6465
Cassani, G. 2564
Cassava Newsletter 7738
Cassel, D. K. 6423, 8153
Casselli Júnior, A. 4242
Cassman, K. G. 619-620, 2320, 3053, 3902, 4009, 6577
Castagna, R. 7996
Castañeda Gómez, J. C. 8317
Castellano, S. 2803
Castelle, J. C. 1849, 7813
Castillo, A. G. 3519
Castillo, D. 848, 1545, 7400-7401, 7437
Castillo, E. G. 8231
Castillo, J. 8582
Castillo, J. A. 345
Castillo, T. N. 7521
Castillo R., C. 3978
Castillon, P. 34, 2754, 3054
Castonguay, Y. 2238
Castoria, R. 4472
Castrignanò, A. 1590
Castrillo, M. 1717
Castro, C. 3278
Castro, J. L. de 2070
Castro, O. M. de 8156
Castro, P. R. C. 1584, 1666
Castro, V. 1850
Castro Neto, M. T. de 4347
Castroviejo, M. 6303
Catâneo, A. 1378
Catargiu, D. 7233, 7711
Catchpole, V. R. 7066
Catesson, A. M. 4438, 7859
Cathala, N. 2187
Catling, D. 5381
Catroux, G. 2795
Čatský, J. 1316, 5187, 7923
Cattan, P. 2195
Caubergs, R. 89
Causin, H. F. 8055
Caussanel, J. P. 2470
Causse, H. 8450
Cauvery, R. 6685
Cavada, B. S. 8516
Cavagnaro, J. B. 5133
Cavagnollo, E. M. 2351
Cavalcanti, M. A. 428
Cavalié, G. 2985
Cavalot, P. C. 401
Cavazza, L. 392
Caviedes, C. N. 7985
Cavins, J. F. 1618, 8348
Cayon, D. G. 986
Ceauşu, C. 38, 76
Ceccarini, L. 7917
Cecchi, V. 3919
Ceccon, P. 1461
Cedeño-Maldonado, A. 8598
Cejudo, J. 666
Celani, G. 2232
Cellier, P. 826
Cellino, M. L. 2062
Cen, Y. P. 6974
Cenkowski, S. 2994
Cenpukdee, U. 1161
Centro Internacional de la Papa 7981
Ceotto, C. 737
Cepuder, P. 4221
Cera, M. 7110
Cerávulo, L. C. 4290
Cercós, M. 2215
Cereti, C. F. 440
Ceriotti, A. 344, 8309
Cerisola, C. 8114
Cerletti, P. 8509
Cerrato, M. E. 2084
Cervantes, C. A. 2230
Cervone, F. 8701
Cesare, F. de 8178
Cha, J. W. 6153
Cha, S. W. 6476
Cha, Y. H. 6476
Chacón, L. A. 5560-5566
Chadov, A. N. 3666
Chae, J. C. 4142
Chae, J. S. 8326
Chaenwitaya, N. 6701
Chagvardieff, P. 5991
Chahal, S. S. 3178, 3192
Chahal, V. P. S. 367, 5858
Chai, Q. H. 3495
Chai, Y. F. 5715
Chaĭka, M. T. 3214
Chaĭlakhyan, M. Kh. 414, 3679, 8585
Chaillou, S. 4861
Chairidchai, P. 5439
Chaiwanakupt, S. 6766
Chakor, I. S. 8520, 8655
Chakraborty, A. 4949
Chakraborty, M. K. 1016, 5040
Chakravarty, A. 5415
Chakravarty, T. N. 7014
Chakravorti, S. P. 7053
Chalifour, F. P. 125
Chalita, C. 4274
Chalk, P. M. 2072, 2663, 3609, 6713
Chamber, M. 4406
Chamberlain, H. J. 6610
Chamberlain, K. 4546, 6920-6921
Chambers, A. Y. 7526
Chambers, B. J. 36, 525
Chamen, W. C. T. 694, 1934
Chamma, H. M. C. P. 6440
Champawat, R. S. 3538
Champigny, M. L. 2036
Champion, R. A. 1657
Champoux, M. C. 4238
Chamy, A. 4214
Chan, H. Y. 1813-1814
Chan, K. L. 4218
Chan Van, N. 858
Chanasyk, D. S. 3042, 7819
Chand, K. 2464
Chand, P. 8559
Chand, S. P. 3508, 5511-5512, 5619, 6221, 7049
Chandel, A. S. 980, 984, 4982, 5871
Chander, K. 7960
Chandgi Ram 1739, 2419
Chandler, J. M. 1820, 8255
Chandler, P. M. 2567, 2573
Chandola, V. K. 725
Chandra, A. 6980
Chandra, D. 1560, 2667, 6500
Chandra, J. 6110
Chandra, K. 5622
Chandra, P. 7041
Chandra, R. 8499, 8503
Chandrajee, R. 4160
Chandrakar, B. L. 363
Chandrakar, B. S. 956
Chandraker, B. L. 3370
Chandrasekaran, R. 596, 860
Chandrasekaran, S. 3403
Chandrasekhara Reddy, S. 1090
Chandrasekhariah, A. M. 769
Chandravanshi, B. R. 363
Chandrawanshi, B. R. 1094
Chaney, K. 721-722
Chaney, R. L. 1253, 1887, 6682
Chang, F. C. 8164
Chang, G. P. 4071
Chang, G. Y. 3340
Chang, J. J. 1552
Chang, M. H. 2508
Chang, M. T. 5595
Chang, P. S. 4259, 8346
Chang, R. 4618, 6649
Chang, R. Z. 1651, 5766
Chang, X. P. 7336
Chang, Y. F. 5616
Chang, Y. H. 4804
Chang, Y. S. 7030-7031, 8326
Changnon, S. A. 7362-7363
Channabasavanna, A. S. 6599, 8637
Channakeshava, B. C. 4165
Channal, H. T. 5681
Channon, P. 4849
Channy, M. J. 8188
Chanzy, A. 8353
Chao, C. N. 8269
Chapelle, E. W. 2194
Chaphale, S. D. 5092
Chapin, F. S., III 7272
Chapko, L. B. 2375
Chaplot, P. C. 2575, 2882, 6927, 7788
Chapman, A. L. 4062-4063, 7315
Chapman, D. J. 317-318
Chapman, D. K. 8099
Chapman, G. P. 2420
Chapman, K. D. 4535
Chapman, K. S. R. 1143, 1776
Chapman, P. L. 7638
Chapman, S. C. 7577-7580, 7815-7816
Chapovskaya, G. V. 1933
Chappell, J. 492, 3767
Chardas, G. 1394
Chardot, T. P. 3308
Charest, C. 3936
Charjan, S. K. U. 4271, 4976
Chark, K. S. 4668, 4692
Charland, M. 1682
Charlebois, D. 1684
Charlet, L. D. 4559
Charn, C. G. 6548
Charnay, D. 5003
Charoendham, P. 194
Charpentier, H. 2377
Charthal, S. G. 6941
Chartier, M. 240, 826
Chasan, R. 8688
Chase, D. L. 4721
Chase, R. W. 407, 5182
Chatelain, C. 8450
Chattaway, J. A. 1689
Chatterjee, B. N. 6499
Chatterjee, C. 3753, 4017, 5130, 8729
Chatterjee, S. 5874
Chatterjee, S. R. 7925
Chattha, T. M. 8259
Chattopadhyay, S. 5874
Chattoraj, A. N. 4759
Chaturvedi, G. S. 7435
Chaturvedi, K. 2612
Chaubal, R. 1425, 1595
Chaubey, C. N. 5635
Chaudhari, A. N. 5040
Chaudhari, B. T. 1669, 6924
Chaudhari, Y. R. 7876
Chaudhary, A. K. 1060
Chaudhary, B. D. 1245
Chaudhary, D. R. 6775
Chaudhary, J. B. 5418, 8034
Chaudhary, M. S. 4183
Chaudhary, R. C. 872, 1829
Chaudhary, R. G. 6109
Chaudhry, A. U. 7668
Chaudhry, B. L. 5876
Chaudhry, M. A. 8692
Chaudhry, M. T. 3406
Chaudhury, G. R. 7653
Chaudri, A. M. 6682
Chauhan, B. S. 6499
Chauhan, C. P. S. 7909
Chauhan, D. V. S. 1851, 7587
Chauhan, G. S. 8514
Chauhan, R. P. S. 3132
Chauhan, R. S. 504, 5846, 6110, 7026
Chauhan, R. V. S. 4629
Chauhan, S. P. S. 1592
Chauhan, V. D. 3716
Chauhan, V. S. 1555
Chauhan, Y. S. 2255, 2255, 5846, 5879, 6075, 7689
Chaurasia, S. C. 8643
Chaurasia, S. N. S. 5954
Chaure, N. K. 7807, 7836
Chavan, A. A. 6709
Chavan, A. S. 889
Chavan, C. D. 7748
Chavan, D. A. 7785, 7789
Chavan, G. V. 7789
Chavan, M. A. 6944
Chavan, P. D. 375, 5140, 5890, 6071, 7833, 8391
Chavan, S. A. 2334, 2374, 4113
Chavan, S. R. 8391
Chavan, U. D. 2366
Chavan, V. W. 6269
Chavanne, E. R. 4623
Chavanon, M. 3631
Chavarriaga, P. 6881
Chaverra, M. H. 5844
Chaves, M. M. 3087
Chawla, H. S. 5857
Chawla, V. 8058
Chay, C. H. 1521
Cheban, V. M. 8751
Chebotar', S. V. 8129
Chebotar', V. K. 6000

Chée, R. P. 7735
Cheema, A. A. 8225
Cheema, H. S. 5025
Cheema, S. S. 5625, 6072, 8372
Cheeseman, J. M. 6170
Cheetham, R. D. 1842-1843
Chehbouni, A. 2965
Cheikh, N. 3488, 3492
Chekurov, V. M. 1770
Chellamuthu, V. 4518, 7471
Cheltsov, P. A. 6472
Chen, C. C. 4291
Chen, C. K. 5754
Chen, C. S. 350
Chen, C. T. 2153
Chen, C. Y. 928, 999
Chen, D. Z. 2956
Chen, F. 1232, 8249
Chen, F. S. 1200
Chen, F. X. 1193
Chen, G. C. 6468
Chen, G. P. 2625, 6433
Chen, G. X. 6533
Chen, H. 7232
Chen, H. M. 888
Chen, H. Q. 5715
Chen, H. Y. 6915
Chen, J. C. 1516, 2779, 3391, 7001
Chen, J. T. 995
Chen, J. Z. 5692
Chen, K. Q. 3470
Chen, K. W. 6118
Chen, L. 6552
Chen, L. B. 919
Chen, L. F. O. 1812
Chen, M. D. 6910
Chen, R. F. 3724
Chen, R. M. 677, 6553
Chen, R. Y. 3346
Chen, S. B. 3190, 4451
Chen, S. H. 3495
Chen, S. J. 4120
Chen, S. L. 2153
Chen, S. N. 2944
Chen, S. S. 4049, 4087, 4092, 6150, 6420
Chen, S. Y. 3037, 7037
Chen, T. 67
Chen, T. B. 8277
Chen, T. H. 1812
Chen, T. R. 6533
Chen, W. 3346
Chen, W. S. 1568
Chen, X. J. 5089
Chen, X. Q. 2040
Chen, Y. 359, 1189, 2609, 5378, 6463
Chen, Y. B. 2013
Chen, Y. L. 5637, 5651
Chen, Y. M. 995
Chen, Y. P. 359
Chen, Y. R. 1568
Chen, Y. X. 2629
Chen, Z. 3381
Chen, Z. Q. 4979
Chen, Z. X. 2341, 2493
Cheng, B. S. 3963, 4769, 5738, 7533
Cheng, C. M. 1567
Cheng, H. Y. 4087, 4092
Cheng, M. 444
Cheng, S. C. 1733
Cheng, X. N. 4133
Cheng, X. Z. 8239
Cheng, Y. L. 4753
Chengelev, A. 8703
Chennakeshahva, B. C. 1620
Cheong, J. J. 1635
Cheong, K. W. Y. 1782
Cheralu, C. 6786
Cheremisov, B. M. 6407
Cherkanova, N. N. 3758, 8687
Chermak, P. 3956
Cherney, D. J. R. 5556
Chernobrovkin, S. L. 5207
Chernov, I. A. 550
Chernova, E. N. 3172
Chernykh, I. N. 3141
Chernykh, N. A. 750, 3141
Chervin, D. 490
Chesson, A. 6475
Chetirkin, P. V. 6762
Chetti, M. B. 3920, 5680
Chevalier, P. M. 61, 4713, 5448
Chevion, M. 4297
Chhabra, A. K. 1424, 1739, 2419, 6100
Chhabra, B. S. 633
Chhabra, H. K. 5285
Chhabra, M. L. 8680
Chhaya Singh 3321
Chhibba, I. M. 6142
Chhikara, R. S. 2519
Chhillar, J. K. 236
Chhipa, B. R. 7476
Chhonkar, A. K. 984
Chi, K. S. 7961
Chi, X. Y. 4929
Chiang, C. M. 5527
Chiang, K. S. 6548
Chiarandà, F. Q. 8030
Chiatante, D. 4314, 4316, 6723
Chiba, S. 5079
Chichester, F. W. 7450
Chidichimo, H. O. 945
Chierice, G. D. 3931
Chiezey, U. F. 2755
Child, R. D. 7820
Childs, G. F. 4137
Childs, K. L. 3432
Chile, Sociedad Agronómica de Chile 8818
Chilosi, G. 737
Chimanshette, T. G. 6923
Chimič, J. 2736
Chimmad, B. 6010
Chin, M. S. 1730
China, Changchun Agricultural Scientific Research Institute 962
China, National Rice Research Institute 5373
China, Sweet Potato Research Team, Zhejiang Academy of Agricultural Sciences 5213
Chinene, V. R. N. 1344, 7365
Chinnamma, N. P. 912
Chinnasamy, K. 5300, 5326
Chinnaswamy, K. N. 7034
Chino, M. 4999
Chinushi, T. 5724
Chioccoloni, F. 2318
Chiorrini, C. 2206, 2231-2232
Chiota, E. G. 8656
Chipde, D. L. 6941
Chiriac, A. 7512
Chiriac, M. 7507
Chirkova, T. V. 5446
Chirnaksom, S. 7870
Chishti, S. N. 1745
Chistyakov, V. G. 7074
Chiteka, Z. A. 8375
Chitkala, T. 1283
Chittapur, B. M. 4, 1750, 5779, 6227, 6794, 7502, 8641, 8646
Chloupek, O. 8806
Chmeleva, Z. V. 6000
Chmielewski, F. M. 7237
Chmielnicki, J. 2728
Chmora, S. N. 3850, 8760-8761
Cho, E. G. 2785
Cho, J. W. 3916
Cho, K. S. 233
Cho, M. C. 6089
Cho, M. J. 1658
Cho, N. K. 2250
Cho, S. Y. 4122-4124, 6568
Chochola, J. 1755
Chockalingam, S. 2363, 2365, 3785-3786, 5297, 6106-6108, 7018, 8709
Choe, B. H. 3297, 4058
Choe, Z. R. 840
Choi, B. H. 498, 1260, 4515, 4605, 4969
Choi, B. J. 917
Choi, C. H. 5543
Choi, C. Y. 424, 4549, 7794
Choi, D. 5191
Choi, D. R. 5179
Choi, D. W. 911
Choi, H. C. 4122-4124, 6568
Choi, H. K. 1078
Choi, H. S. 7415
Choi, J. 7854
Choi, K. B. 840
Choi, K. G. 291
Choi, K. J. 1078, 4854
Choi, S. K. 911
Choi, S. Y. 4156
Choi, W. Y. 8355
Choi, Y. H. 4122, 7426
Choik, K. T. 7867
Chollet, R. 156, 4960
Chongpraditnun, P. 4999
Choo, H. G. 7848
Choo, T. M. 2549
Chopart, J. L. 763
Chopra, N. K. 378
Chopra, V. L. 1874, 2502, 8689
Chore, C. N. 6515, 6680
Chorley, R. J. 2426
Chou, C. H. 7439, 8275
Chou, C. M. 1570
Choubey, P. C. 6023
Choubey, S. D. 514
Choudhari, S. D. 2164
Choudhary, K. K. 7807, 7836, 8381
Choudhary, M. 1304
Choudhuri, M. A. 5101, 8258
Choudhury, A. 883
Choudhury, A. K. 7185
Choudhury, F. A. 850, 5632
Choudhury, G. K. 8240
Choudhury, M. 1244
Choudhury, P. P. 30, 6494
Choudhury, R. U. 5126
Chouhan, G. S. 7475
Choukan, R. 5719
Chourasia, S. K. 8643
Chouteau, J. 7860
Chow, W. M. 350
Chow, W. S. 1035, 1917, 2826, 7531
Chowde Gowda, M. 4387
Chowdhury, M. K. 754
Chowdhury, P. R. 3913
Chowdhury, S. H. 62
Chowdhury, S. R. 6009
Chraibi, B. K. M. 7813
Chraibi, K. M. 6957
Chraibi, K. M. B. 457, 1849
Chrispeels, M. J. 551, 5836
Christ, B. J. 5968
Christen, O. 2430, 8043, 8132
Christensen, N. W. 4454
Christensen, R. H. 7317
Christensen, S. P. L. 5546
Christenson, D. A. 7482
Christenson, D. R. 3622
Christian, D. G. 518
Christiansen, S. P. L. 445
Christiansen-Weniger, C. 695
Christianson, C. B. 2721, 2723
Christie, B. R. 4852
Christie, R. A. 3064, 7172
Christmann, J. 1124
Christoulas, K. 1394
Christova, R. 8190
Christyakova, L. V. 414
Chrzanowska-Drożdż, B. 719, 780, 6427
Chu, C. 2681, 3401, 8273
Chu, C. C. 3705
Chu, H. G. 6089
Chu, W. L. A. 5278
Chu, Z. X. 4753, 6955
Chua, N. H. 6079, 7842
Chua, T. T. 8231
Chudek, J. A. 2966
Chueca, A. 1039
Chugh, L. K. 2834
Chujo, H. 918
Chumachenko, E. S. 6629
Chumachenko, I. N. 6629
Chumakov, M. I. 696
Chumbimune, R. 4653
Chun, J. U. 4265
Chung, B. J. 4141
Chung, C. S. 7865
Chung, D. H. 5274, 8355
Chung, G. S. 1031, 2785, 3396
Chung, I. M. 5569
Chung, K. Y. 4515, 6903
Chung, R. S. 7535
Chyen, D. 4235
Chyuan, J. H. 4258, 5009
Ciafardini, G. 1661
Čiamporová, M. 8194
Cianzio, S. R. 2780
Cibella, R. 8666, 8669
Çiçek, N. 2306
Cícero, S. M. 5042, 6440
Ciepielewska, D. 3779
Cieslinski, Z. 6230
Cihacek, L. J. 429
Cini, E. 2571
Cinite, A. 3951
Ciobanu, I. V. 7484
Ciocan, V. 126
Ciolo, S. di 2571
Cires, A. de 7277
Čislák, V. 1379
Citharel, J. 372, 1749
Ciubotariu, C. 7706
Claassen, H. 1919
Claassen, N. 1318
Claes, B. 3400
Claimon, S. 6766
Clark, A. G. 348
Clark, C. A. 8595
Clark, D. C. 6068
Clark, E. A. 4852
Clark, G. B. 8422
Clark, J. A. 7085, 7603
Clark, J. L. 4205
Clark, R. A. 2867
Clark, R. B. 7455, 7637
Clarke, A. K. 5524
Clarke, J. H. 1051, 8300
Clarke, P. R. 7928
Clarke, R. B. 258
Clarkson, D. T. 5584, 5601
Claude, P. P. 6413
Clausell, P. M. 6656
Claut, V. 6723
Clawson, G. A. 5051
Clayton, H. 8172
Cleal, R. A. E. 5147
Cleemput, O. van 3646
Cleland, R. E. 1326, 1448
Clemens, G. 1024
Clement, S. 6033
Climent, F. 5583
Clinquart, A. 8162
Cliquet, J. B. 4883
Coale, F. J. 1289, 6121
Coates, P. 1396
Cobas, M. 1545
Cobb, A. H. 3665, 3676, 3686
Cobbina, J. 7304
Coble, C. J. 1618
Coble, H. D. 5735
Cocci, F. 2204
Cochran, V. L. 5494, 6360
Cochrane, M. P. 2568
Cocking, E. C. 907
Cocucci, M. 5580
Codecà, F. 961
Codianni, P. 7996, 8104
Codoni, D. 7265
Cody, A. L., Jr. 7707
Cody, S. H. 4083
Coelho, A. M. 2092
Coetzer, L. A. 2897
Coffelt, T. A. 4280, 8387
Coffman, C. B. 8802
Cogdell, R. J. 3530
Cogle, A. L. 1593
Cogoni, A. 2896
Cohen, J. D. 1892, 2864, 5839
Cohn, M. A. 3386
Colas des Francs-Small, C. 1795
Colbert, J. T. 1451
Cole, D. J. 2559
Cole, L. 6190
Coleman, J. O. D. 6176, 6190, 6209
Coleman, S. 4481
Coles, G. D. 4007
Coll, C. 3879

Collatz, G. J. 2132
Collaud, J. F. 706, 783, 3283, 6372-6373
Collier, D. E. 8057
Collier, R. A. 8573
Collineau, S. 2643
Collinge, D. B. 4660
Collings, D. A. 4873
Collins, B. A. 4715
Collins, F. W. 5484
Collinson, S. T. 235, 1006, 5762
Colls, J. J. 120, 348, 2846
Colmer, T. D. 5462
Colnenne, C. 3183
Colombia, Centro International de Agricultura Tropical 7970
Colombini, M. 5457
Colón, V. 4917
Colonna, M. 7986
Colvin, T. S. 5541
Côme, D. 6342, 6344
Comes, O. 8703
Comstock, J. C. 7032, 7882-7883
Comstock, V. E. 1839
Concari, L. 3919
Concilio, L. 1779
Conejero, G. 2187
Conese, C. 260, 2716
Coniff, K. L. 7638
Conner, D. 4072
Connor, D. J. 455, 6064
Conry, M. J. 4008, 7250, 7256
Constable, G. A. 1167
Contat, F. 5353
Conti, D. 7451
Convertini, G. 8787
Cook, C. G. 6043, 8601
Cook, P. W. 4252
Cook, S. K. 1050, 5252
Cook-Moreau, J. 7798
Cooke, D. A. 8823
Cooke, D. T. 88, 2683, 4920, 5601
Cooke, R. J. 6409
Coolbear, P. 3519
Cooper, J. E. 2441
Cooper, J. L. 4719
Cooper, R. L. 7520
Cope, M. 2786
Copeland, J. P. 2095
Copeland, L. 2485, 4998
Copeland, L. O. 56
Copersucar 1275-1279
Coppo, P. 6193
Corazza, L. 737
Corbellini, M. 2067, 8104
Corbet, S. A. 7826
Corbin, F. T. 5684
Corbineau, F. 6342, 6344
Cordero, A. 1579
Cordero Machado, E. 7862
Cordewener, J. 2356
Cordonnier-Pratt, M. M. 1450, 3432, 8101-8102
Córdova, J. J. 5559
Corey, K. A. 5432
Corlett, J. E. 1929, 2171-2172
Cormack, W. F. 3633
Cornel, F. A. 6080
Cornelius, J. R. 1500, 7359
Cornish, E. 8781
Cornish, K. 2961
Coroianu, M. 7507-7508, 7915
Coronel, V. P. 3408
Corpas, F. J. 5061
Corrêa, H. 2311
Cors, F. 1225
Corsini, D. L. 5181, 5979
Cortázar S., R. 3885
Cortés, F. D. 3153, 3740
Coruzzi, G. M. 1323, 4311
Cosculleula, F. 5611
Cosgrove, D. J. 1691, 3827, 8100
Cosio, E. G. 6669
Costa, A. 1729
Costa, C. 793
Costa, E. 3677
Costa, E. C. 222
Costa, F. 2543
Costa, J. O. 356
Costa, L. D. 292
Costa, L. dalla 292, 1461
Costa, N. de L. 360
Costa, N. P. 4216
Costa, V. 2057
Costa Mota, M. G. da 1830
Costa Rica, Ministerio de Agricultura y Ganadería 4691
Costello, T. A. 929, 1562, 4954
Cothren, J. T. 430, 3268, 3464
Cotterill, P. J. 6379
Cottingham, C. K. 2604
Couch, T. D. 1637
Couée, I. 5575
Coufal, V. 749
Coughlan, K. J. 1593
Coughlan, S. J. 1038
Coulman, B. E. 6413
Coulomb, I. 2269
Coulter, L. 1261
Counce, P. A. 2674, 4901
Courcoux, P. 41
Cousens, R. D. 642
Cousson, A. 7000
Coutinho, E. L. M. 4137
Coutinho, J. 735
Couto, C. 798
Couto, L. 817
Couvreur, F. 268
Couvreur, L. 2001
Coventry, D. R. 1977
Cowan, D. S. C. 5584, 5601
Cox, D. J. 604
Cox, F. R. 849, 4655
Cox, W. J. 5556, 7295
Cox, W. M. 6762
Coyne, D. P. 1069, 6760, 7646
Craene, D. de 1701
Craft, E. M. 2128
Crafts-Brandner, S. J. 1631
Craiciu, D. 452
Craigon, J. 3975
Craker, L. E. 8186
Cramer, C. L. 2213
Cramer, G. R. 2126, 3750
Cramer, M. D. 8050
Crane, F. L. 1636, 8342
Crane, J. M. 6084
Crans, D. C. 7645
Cranstoun, D. A. S. 5496
Crasta, O. R. 6136, 6801
Craswell, E. T. 561
Craufurd, P. Q. 3433-3434
Cravo, M. S. 1115, 2588
Cregan, P. B. 5776
Cremaschi, D. 4461
Cremenescu, G. 38, 76
Crescentini, P. 2206, 2231-2232
Crespo, G. 315
Cresswell, G. C. 6215
Cresti, M. 1885, 4601, 6096
Creuzer, C. 7276
Crèvecoeur, M. 4438
Crews, L. 1203
Cripps, R. W. 3281
Crisosto, C. 2371
Crisosto, G. M. 2371
Cristanini, G. 8696
Cristea, M. 147
Cristóbal Suárez, R. 7545
Critchley, C. 5524
Crofts, A. R. 3852
Croissant, R. L. 2240
Croker, S. J. 8180
Crook, M. J. 6249, 7361
Crookston, R. K. 4031, 7208
Crosson, P. 2052
Crosson, P. R. 3862
Crosthwaite, S. K. 5157
Crosti, M. 4314
Crouse, G. D. 2768
Crowe, F. J. 4454
Crowell, D. N. 6095
Crowle, W. L. 8118
Crozat, Y. 289
Cruse, R. M. 2093, 2128, 5543
Crush, J. R. 3448
Cruz, C. D. 4095
Cruz, J. C. 4042
Cruz, R. T. 6612
Cruz Fernández, M. 6659
Csathó, P. 143, 528
Csintalan, Zs. 6947
Csizmazia, Z. 3130
ČSVTS 1755
Cuadrado, C. 7682
Cuesta, A. 8730
Cuevas, C. S. 3740
Cuevas, J. M. 5714, 6192
Cuevas Gozalo, J. N. 3099
Culbertson, R. D. R. 1643
Culbreath, A. K. 8388
Cullen, B. 1143
Culley, J. L. B. 3264
Cultivar 4557
Culy, M. D. 1500, 7359
Čumakov, A. 1133, 1755
Cuming, A. C. 7194
Cumming, A. B. 2860
Cumming, J. R. 2860
Cummins, I. 471
Cummins, W. R. 8057
Cundiff, J. S. 8283
Cunfer, B. M. 4806
Curbelo, F. 8740
Curnow, R. N. 8838
Curran, W. S. 2605
Currin, R. E., III 6090
Currle, C. 2875
Curtis, W. R. 7726
Cusack, T. J. 8359, 8364
Cutforth, H. W. 4772
Cutler, A. J. 2630, 5604
Cygankiewicz, A. 3128
Cyprus, Agricultural Research Institute 7971
Czapla, J. 2784
Czekalski, A. 7485
Czinkota, I. 2033
Czyż, H. 2201
Da Costa Mota, M. G. 1830
Da Mota, F. S. 275, 2337
Da Nóbrega, L. B. 428, 7759, 7766
Da Silva, C. M. 4983
Da Silva, D. B. 3892, 7127
Da Silva, E. A. M. 4513
Da Silva, J. B. 3564, 4353
Da Silva, J. F. 1830
Da Silva, J. T. A. 6608
Da Silva, J. V. 3824, 4534
Da Silva, N. M. 1817
Da Silva, R. F. 4513
Dabas, S. 3600, 4394
Dabhade, R. S. 4642
Dabre, W. M. 3592, 5038, 6531, 6698, 6893, 6951, 7584
Dachler, M. 387, 7845
Dacus, J. S. 5223, 6899
Dadabaeva, T. P. 3146, 8555
Dadhwal, K. 2520
Dadhwal, K. S. 1987
Dadhwal, V. K. 5479
Dadlani, M. 4104, 5226
Daelemans, A. 2106
Daeter, W. 7281
Dafalla, A. M. M. A. 1018
Dafir, M. 7058
Dagar, J. C. 7093, 8799
Dahal, K. R. 6668
Dahama, A. K. 5507
Dahatonde, B. B. 7510
Dahatonde, B. N. 4167, 5023, 8650
Dahiphale, V. V. 2335, 3736, 4548, 6422, 6949, 7688
Dahiya, S. S. 5568, 5694, 6447
Dahlin, R. M. 4372
Dahse, I. 1703
Dai, H. 6548
Dai, J. J. 3470
Dai, Q. J. 3408, 4101
Dai, X. 7547
Dai, Y. R. 494
Dai, Z. 1204
Daie, J. 4437, 5156
Dainese, P. 6441-6442
Dainty, J. 3113
Dakshini, K. M. M. 4375, 4584
Dalavi, N. D. 7748
Dalbem, M. L. M. 1211
Dale, A. B. 6579, 6602
Dale, J. E. 3075
Dale, M. F. B. 3674
Dalel Singh 5641-5642
Dalessandro, G. 7606
Dalip Singh 5699
Dalla Costa, L. 292
Dalland, A. 6410
Dallmier, K. A. 2622
Dalmond, D. 7926
Dalton, D. A. 5729, 6677, 8341
Dalvi, D. G. 3967, 5891
Daly, M. J. 7249
Damarany, A. M. 2877
Dambroth, M. 1359
Dambyn, Z. 1349
D'Amico, L. 344
Daminati, M. G. 344, 2236
Daminova, D. 1182
Dammer, S. 8301
D'Amore, R. 4334
Dancer, J. 1287
Dandapat, A. 402, 6823, 6856, 7055, 7800
Danert, S. 8703
Danevich, L. A. 1864
Dang, L. C. 6630
Dange, V. 2963
Dangler, J. M. 2308-2309
Dani, R. G. 7770
Daniel, K. V. 6113, 7880
Daniel, T. C. 3272
Daniells, I. G. 1167
Danielş, C. 6124
Daniels, J. 6124
Daniels, J. D. 6579
Daniels, W. L. 574
Danilova, M. F. 3292
Dankert, R. 1791
Dann, P. R. 4733
Danneberg, G. 4093
Danso, A. A. 6415
Danso, S. K. A. 6773, 8333
D'Antuono, L. F. 440, 966
D'Antuono, M. F. 8033
Dantur, N. C. 2853
Danuso, F. 292, 7532
Dao, L. 1797
Dao, T. H. 3123
Daphiphale, V. V. 6950
Dapiphale, V. V. 4611
Daquiado, N. P. 7334
Dara, S. T. 3290
Darade, R. S. 3707
Darange, O. G. 5248, 6796
Darash, R. 7892
Daratech Pty Ltd 1679
Darby, R. J. 1457, 7998
Darginavichenė, Yu. V. 3185
Darginavičienė, J. 3950
Darginavicienė, J. V. 8063
Darginavicienė, Yu. V. 8063
Darius, F. 7489
Darmodjo, S. 8708
Darpas, A. 1795
Darshanie, P. R. 7429
Dart, I. K. 7072
Dartey, K. 2599
Darvill, A. 5800, 8701
Darweesh, M. M. 2863
Darwesh, G. A. 7761-7762
Darwinkel, A. 4000, 7262
Das, A. D. 7480
Das, A. K. 3369
Das, B. 1901
Das, G. 6336
Das, G. P. 5372
Das, J. L. 1836
Das, K. 8742
Das, M. 1033, 2666, 4847, 8276
Das, N. C. 859, 7294
Das, N. R. 212, 6918, 7993
Das, P. 6776, 7440
Das, S. K. 7449, 7912
Das, S. N. 6918
Dasar, G. V. 6801
Dasgupta, B. 5867
Dash, B. B. 7782
Dash, C. R. 4941
Dash, G. B. 4226

Daskalyuk, A. P. 7202
Daskalyuk, T. M. 686
Dastgheib, F. 4742
Daterao, S. H. 3569
Dathe, W. 5531, 7542
Datnoff, L. E. 886, 2141
Datta, A. K. 1836
Datta, B. 212
Datta, S. K. de 213, 4119, 4148, 4907, 6527, 6540, 7406, 8270
Daulay, H. S. 8515
Daun, J. 475
Daussant, J. 2118
Dauwalder, M. 5051
Davì, A. 2317, 7764
David, B. V. 7767
David, N. R. 2209
Davidescu, V. 7508, 7915
Davidonis, G. 3718
Davidson, D. 4550, 6051
Davidson, D. A. 4322
Davidson, D. J. 61
Davidson, M. 8342
Davies, H. V. 1790, 2224, 2301, 6868, 7823
Davies, P. J. 2837, 5808
Davies, R. 8554
Davies, S. P. 7928
Davies, W. J. 555, 6168, 8174
Davies, W. P. 4740, 6627
Davis, D. D. 1533, 4529
Davis, D. P. 6711
Davis, D. R. 3581
Davis, J. D. 2181
Davis, J. R. 3663, 5974
Davis, M. P. 2526
Davis, M. W. 7372
Davydenko, S. V. 4803
Dawe, R. K. 6460
Dawelbeit, M. I. 1018, 7569
Dawood, F. A. 33
Dawson, A. P. 1689
Day, A. D. 493
Day, D. A. 2775, 7539, 8337
Day, J. L. 1234, 6434-6435
Dayal, D. 312, 5019
Dayal, J. 4396-4397
Dayanand 4048
Daza, A. 4406
Dazzo, F. B. 6727
De, G. K. 2665, 6507, 6772
De, N. N. 7047
De, R. N. 5664
De Agazio, M. 8178
De Albuquerque, I. M. 356
De Ambrogio, E. 8029
De Andrade, C. de L. T. 817
De Andrade, J. M. V. 7127
De Andrade, M. J. B. 4335
De Assis, F. N. 4181
De Azevêdo, D. M. P. 7759, 7766
De Baerdemaeker, J. 7057, 7110, 7374
De Barros, A. C. 2763, 4988
De Barse, M. M. J. 112
De Biasi, M. G. 8097
De Boer, H. G. 7024
De Bruin, S. 1949
De Bruyn, A. 4414
De Canson, C. 2795
De Carvalho, A. M. 5550
De Carvalho, V. D. 2311
De Castro, J. L. 2070
De Castro, O. M. 8156
De Castro Neto, M. T. 4347
De Cesare, F. 8178
De Cires, A. 7277
De Craene, D. 1701
De Datta, S. K. 213, 4119, 4148, 4907, 6527, 6540, 7406, 8270
De Falcis, D. 7265
De Falco, E. 1373, 1740
De Faria, L. C. 1071
De Feijter, A. W. 4256
De Felipe, M. R. 8510-8511
De Filippis, R. 8787
De Franchi, A. S. 1373
De Freitas, J. G. 1376
De Freitas, J. R. 1440-1441
De Frey, H. M. 2897
De Gara, L. 3989
De Giorgio, D. 23, 1388, 3044
De Greef, J. 89
De Groot, W. J. M. 2948
De Jager, J. A. 1806
De Jager, J. M. 2305
De Jong, D. W. 1252
De Jong, J. P. 1156
De Kok, L. J. 3973
De Koning, G. H. J. 701
De Kouchkovsky, Y. 1748, 3877, 7685
De la Torre, A. 7277
De Laat, A. 1136, 7703
De Leon, S. Y. 8474
De Lima, L. A. 4242
De Lima, M. L. 2485
De Lorenzo, C. 373, 8510-8511
De Lorenzo, G. 8701
De Lucena Costa, N. 360
De Macêdo Beltrão, N. E. 428
De Magalhães, J. C. A. J. 1617
De Mastro, G. 2322
De Miranda, L. C. G. 4254
De Ninno, M. 3919, 6631
De Oliveira, A. F. F. 4248
De Oliveira, F. A. 426
De Oliveira, J. M. 8279
De Oliveira, J. T. A. 8516
De Oliveira, L. A. 4223
De Oliveira Camargo, C. E. 2070
De Oliveira e Albuquerque, T. T. 4254
De Paula, M. B. 1546
De Pieri, J. C. 4242
De Pinto, V. 8191
De Prins, H. 4676
De Ronde, J. A. 2304, 5996
De Roton, C. 7856
De Santis, A. 8191
De Siervo, A. J. 411
De Silva, M. A. P. 857
De Simone, M. 1061
De Sonza Martins, C. 4137
De Sordi, G. 1716
De Sousa, R. P. 428, 7759, 7766
De Souza, J. G. 4534
De Souza Filho, B. F. 4335
De Souza Kiihl, R. A. 4983
De Tafur, S. M. 4507
De Veau, E. J. I. 996
De Vienne, D. 5280
De Villiers, B. L. 4739
De Villiers, O. T. 1149
De Vos, N. M. 4024
De Vries, F. W. T. P. 5100, 5102, 5383
De Waele, D. 6705
De Wit, C. T. 1347
Deacon, J. W. 4750
Deaconu, I. 172
Dean, B. 5979
Deb, D. L. 6077
Deb, P. R. 2783
Debaeke, P. 681, 698, 1421
Debelo, A. 4967
Debelyĭ, G. A. 2890
Deberdeev, K. Sh. 3226
Deblonde, P. 164
Debnath, N. C. 225, 6772
Debus, R. 7640
Decau, J. 698
Dedikin, V. I. 4727
Deedar Singh 5699
Défago, G. 4698
Defelipo, B. V. 939
Defilippis, R. 252
Degenhardt, D. F. 3751
D'Egidio, M. G. 3919
Degler, M. 381
DeGregorio, R. E. 2651
Deidda, M. 8073
Deka, P. C. 3802
Dekkers, W. A. 5158
Del Campillo, E. 1068
Del Gatto, A. 2232
Del Medico, P. 2231
Del Re, P. 4295, 4334
Del Río, L. A. 5061
Del Vaglio, M. 1724
Del Valle-Tascón, S. 3217
Del Zan, F. 4470
Delane, R. 5897
Delane, R. J. 4718
Delaney, D. P. 7132
Delauney, A. J. 8771
Delbarre, A. 1882
Delchev, L. 3782
Deleens, E. 68, 4960
Delgado, B. 7277
Delgado, E. 6088, 8088
Delhaize, E. 3108, 7176
Delince, J. 7957
Della, A. 1049
Dellacecca, V. 2203
Dell'Amico, J. 5995
Dell'Aquila, A. 50, 7204
Delle Donne, G. 4371
Delle Vedove, G. 2534
Delmer, D. 2063
Delmer, D. P. 4020, 6909
Delogu, G. 961, 3919, 6631, 7268
Delorme, R. M. 1638
Delrot, S. 389, 391, 3113, 3628, 8433, 8535
Deltour, R. 789
Demarty, M. 4539, 7775-7776, 8630
DeMason, D. A. 829, 1746, 2484, 5106
Dembinska, O. 4768
Demetriades-Shah, T. H. 2245
Demin, V. A. 8013
Demkin, P. P. 4727
Demmig-Adams, B. 2986, 3837
Demmler, D. 3639
Demol, J. 2964
Demotes-Mainard, S. 2089
Demski, J. W. 8388
Demyttenaere, P. 2381
Denadai, I. A. M. 1378
Dendsay, J. P. S. 508
Denecke, J. 8309
Denecke, M. 2223, 3547
Deneke-Jöhrens, H. J. 4744
Deneken, G. 2384, 8758
Deng, C. Z. 207, 2138
Deng, H. D. 8262
Deng, J. N. 2350
Deng, R. F. 3389
Deng, S. H. 6029
Denis, M. H. 8433
Denison, R. F. 5743
Dennert, J. 1390, 6254, 7121
Denney, J. O. 7075
Denning, J. L. 258
Dennis, D. T. 1203, 2972
Denton, H. P. 760, 4044, 8153
Denyer, K. 8416
Deo, R. 611
Deokar, A. B. 7559, 8640
Deore, D. N. 3961
Deore, G. N. 3961
Deotale, R. D. 6925-6926
Depta, H. 5818
Deputat, T. 3998
Derbenskiĭ, V. I. 2890
Deren, C. W. 886, 2141, 7032, 7882-7883, 7898
Derevyanko, A. N. 7962
Derkaoui, M. 7987
Deroncele, R. 4456
Deryło, S. 2266, 2739, 8531
Desai, K. B. 241, 955
Desai, M. M. 2197
Desai, M. S. 241, 955
Desai, N. D. 4276
Desai, S. A. 4389, 4398, 6812
Desai, V. G. 8725
Desale, J. S. 5676, 6411, 7319
Desbiez, M. O. 2967
Desborough, P. J. 5728
Desborough, S. L. 5190
Deshmukh, A. B. 8382
Deshmukh, B. A. 8382
Deshmukh, M. P. 7559
Deshmukh, M. R. 881
Deshmukh, P. D. 634
Deshmukh, P. S. 3184
Deshmukh, R. B. 3594
Deshmukh, R. K. 431
Deshmukh, S. B. 4215
Deshmukh, S. C. 2321
Deshmukh, S. G. 6422
Deshmukh, S. N. 2814, 7561, 7568
Deshmukh, S. V. 3592, 5400
Deshmukh, V. N. 3417
Deshpande, A. S. 6871
Deshpande, R. M. 6896, 8600
Deshpande, S. L. 5673
Deshpande, S. M. 5781
Deshpande, V. K. 4052
Desiderio, E. 7451
Desjardins, R. L. 2649, 8148
Desrosiers, M. 1532
Dessalegn, Y. 2727
Destain, J. P. 2001, 2278
Desvignes, P. 2091
Detje, H. 2732
Detry, J. F. 7434
Dettinger, D. R. 2958
Dettmann, E. B. 3664
Deutsch, A. 5557
Dev, G. 5509, 5618, 5629, 6508
Devandesan, S. 8228
Devani, M. R. 2758
Devaraj, G. 6108
Devasenapathy, P. 524
Devergne, J. C. 487
Devi, C. 4609
Devi, D. S. R. 6498
Devi, L. S. 2805
Devi, T. C. 1597, 2807
Devi Dayal 2802, 5019
Devika, R. 216
Deville, J. 401, 4615, 4850
Devinder Singh 1407
Devlin, R. M. 7338
DeWald, D. B. 997
Dewan, B. B. 8490
Dewar, A. M. 5379
Dexter, A. G. 3624
Dexter, A. R. 3084, 6181
Dey, S. C. 6550, 7185
Dey, S. K. 6543
Dey, T. K. 5372
Deynze, A. E. van 464
Dhaka, R. P. S. 5247
Dhakal, M. 6554
Dhal, J. K. 6854
Dhaliwal, B. K. 772, 2590, 5959
Dhaliwal, H. S. 1407, 5129
Dhaliwal, J. S. 2434
Dhammika Gunasekera 682
Dhananjai Singh 5647
Dhanda, R. S. 1972
Dhanraj, A. 8632
Dhar, A. C. 3458
Dhara, M. C. 6823
Dharam Singh 8799
Dharam Vir 6542
Dharmalingam, C. 5859
Dharmatti, P. R. 462
Dhavalagi, S. A. 6054
Dhawas, S. A. 877
Dhawase, M. R. 2804
Dhillion, S. S. 926
Dhillon, A. S. 5261
Dhillon, N. S. 5127, 5509, 6508
Dhillon, S. S. 238, 1248
Dhillon-Grewal, R. 3714
Dhindsa, K. S. 1334, 8058
Dhindsa, M. S. 1845
Dhingra, H. R. 5060
Dhingra, K. K. 4355
Dhingra, M. 3732, 3761
Dhingra, M. K. 5949
Dhingru, K. K. 5877
Dhir, K. K. 4194, 4668, 4692, 5098
Dhir, R. P. 7152
Dhoble, M. V. 6709, 6923, 6944, 7907, 8733, 8741
Dhope, A. M. 8280
Dhopte, A. M. 1674-1675
Dhuka, A. K. 7135
Dhumal, V. S. 8640

Di Bari, V. 7, 1590, 3044
Di Candilo, M. 4334
Di Ciolo, S. 2571
Di Fonzo, N. 700, 7266, 8029
Di Marco, G. 3817
Di Marco, G. R. 1958
Di Nola, A. 2251, 8472
Di Tomaso, J. M. 2607, 5578
Diao, Z. M. 1445
Díaz, C. 2230
Díaz, E. 509
Díaz, I. 7401
Díaz, M. 2528, 3669
Díaz, M. M. 4487
Diaz, T. 4245
Diaz del Castillo, L. 2220
Díaz L., J. 4917
Dick, R. G. 3033
Dick, W. A. 2578
Dickens, W. L. 4443
Dickson, A. A. 5572
Dickson, J. W. 1810, 5536, 7731
Didon, U. 5969
Diekmann, K. H. 213, 4119, 6527, 7406
Diekmann, W. 5793
Diemann, E. 3115
Diening, A. 3065
Diepen, C. A. van 701
Diepenbrock, W. 1222-1223, 2415-2416, 2975, 3737, 3746, 7967
Dietrich, S. M. de C. 1165
Dietz, K. J. 1474, 1483, 2563, 4835, 5516
Dieuaide, M. 2615, 6956
Diez, T. 1936
Digonnet, C. 4877
Dilorio, A. A. 1842-1843
Dikshit, R. K. 3002
Dikshit, U. N. 5112
Dilday, R. H. 929, 4954
Dilland, E. F. 2095
Dilley, F. B. 171
Dilley, R. A. 4305
Dillwith, J. W. 4536
Dilly, R. R., Jr. 4129
Dily, F. le 8536
Dimitriev, N. N. 6262
Dimitrov, I. 3602
Dincă, B. 76, 172
Dinelli, G. 4346, 7081
Dinesh Chandra 1560
Ding, B. 496
Ding, D. 7142
Ding, H. D. 3152
Ding, J. M. 3125
Ding, K. X. 8208
Ding, X. M. 5759
Ding, Y. 6285
Ding, Z. R. 7828
Dinkelaker, B. E. 3935
Dinu, C. 638
Dinya, Z. 4869
Diolez, P. 7722
Diouf, M. 2173
Dipierro, S. 4474
Dippenaar, M. C. 5231, 6890
D'Ippolito, D. 7314
Dirks, V. A. 1613
DiTomaso, J. M. 791, 2606, 3298, 8167
Ditsch, D. C. 129, 1375
Diwan Singh 3440
Dixit, J. P. 3895
Dixit, L. 6695
Dixit, L. A. 4165, 5218, 6136
Dixit, R. C. 5718
Dixit, R. S. 5497, 6056
Dixit, V. K. 5635
Dixon, F. L. 2982
Dixon, T. 3623
Dizdaroğlu, T. 7849
Dizengremel, P. 992
Djakamihardja, S. 3358
Djurdjević, M. 2635
Dmitrakova, L. K. 960
Do Lago, A. A. 2134
Doan, D. N. P. 7279
Dobbs, T. L. 1602
Dobek, A. 6731
Döbereiner, J. 5215, 7894
Dobermann, A. 4888
Dobert, R. C. 1752, 4422, 5862
Dobrenov, V. 6642
Dobrzanski, B. 1699, 1863, 2993
Dodds, P. 1495
Doebley, J. 3262
Dofing, S. M. 108, 4828, 5495
Doga, G. Kh. 1132
Dogar, M. S. 8225
Dogra, R. 3946
Doi, R. 2797
Dok-Su, L. 115
Đokić, A. 405, 2459, 3163
Đokić, D. 24, 28
Dokić, P. 6839
Doktorová, M. 8794
Dolan, M. S. 820
Dole, P. 3308
Dolezal, M. 3435
Doležel, J. 1339
Dolgikh, A. N. 436
Dolgodvorov, V. E. 2450
Dolin, Yu. S. 7168
Doll, H. 4777
Dolman, A. J. 5488
Dolnicki, A. 6338-6339, 6366
Dołomisiewicz, M. 6366
Dolstra, O. 790
Dolzhitskaya, A. G. 2108
Domaingue, R. 3034, 4622
Doman, N. G. 4075
Domash, V. I. 6818, 7684
Dombóvári, J. 4838
Domiano, P. 1042
Domier, K. W. 7819
Dominic, R. 3004
Dominick, W. 360
Domroes, M. 3190
Domska, D. 2443
Domżał, H. 6634
Donaire, J. P. 453, 7814
Donald, D. 6965
Donatelli, M. 253, 737
Donath, E. 3993
Dong, C. M. 7073
Dong, G. Q. 3095
Dong, J. P. 4682
Dong, L. H. 5759
Dong, L. Y. 5692
Dong, M. Y. 7504
Dong, S. T. 5434
Dong, X. 4537
Dong, Y. H. 6493
Dong, Z. 5721, 5747
Dongale, J. H. 889, 5849, 8754
Dongarwar, U. R. 5027
Dongre, B. N. 2802
Donkin, M. E. 5815
Donne, G. delle 4371
Donnelly, D. 1683
Donovan, T. J. 1201
Doonan, J. H. 2356
Doong, R. L. 5987
Dopico, B. 8495-8496
Doraiswamy, S. 7529
Doré, T. 2823
Dörffling, K. 4943, 6563
Döring, O. 1636
Dorji, Y. 7006
Dorl, J. 4303
Dörmann, P. 8691
Dornescu, D. 7143-7145, 7512
Doroszewski, A. 3960, 4606
Dos Santos, D. S. B. 2239, 3564, 4161
Dos Santos, H. L. 7453
Dos Santos, H. P. 3981, 4207
Dos Santos, J. W. 426
Dos Santos Amaral, A. 5667
Dos Santos Filho, B. G. 2239, 3564
Doseeva, O. A. 8230
Dou, H. 1386
Douce, G. K. 5730
Douce, R. 2831
Douches, D. S. 5182
Douds, D. D., Jr. 6444
Dougan, D. 1482
Douglas, A. C. L. 6591, 6593
Douglas, C. L., Jr. 3124
Douglass, M. P. 1444
Douleh, A. 5066
Doussinault, G. 268
Doust, J. L. 2851
Dovrtěl, J. 2474
Dowdy, R. H. 820
Dowling, C. W. 6596
Dowling, V. 231
Downham, M. C. A. 8613
Doyen, C. 2118
Doyle, A. D. 1460, 4726
Doyle, M. M. R. de 787
Dracup, M. 5473-5474
Dragomir, G. 160
Dragović, S. 6674
Dragovoz, I. V. 95
Drake, R. R., Jr. 6033
Dranishchev, N. I. 7368
Dratewka-Kos, E. 7194
Dravid, M. S. 4836
Drawert, F. 3030
Dražić, D. 3286
Drenth, H. 7416
Dreschel, T. W. 55, 3533, 6762
Dressel, J. 2442
Dressler, A. 3301
Drew, M. C. 1520, 2724, 3083, 5224
Drewes, F. E. 3487, 5810, 8179
Dreyer, M. 1529
Drich, V. K. 614
Drincha, V. M. 85
Drincovich, M. F. 5581
Driouich, A. 8788
Driscoll, S. P. 8082, 8088
Driskill, C. D. 8693
Drøbak, B. K. 1689
Drobysheva, N. I. 8411
Drochioiu, G. 161
Droillard, M. J. 2861
Droppers, J. A. 758
Drozdova, I. S. 738, 6715
Drucker, M. 5052
Druganov, A. G. 1770
Drüge, U. 4554
Drumm-Herrel, H. 6987
Dry, I. B. 333
Dryjańska, M. 7485
D'Souza, D. S. M. 5970
D'Surney, S. J. 8351
Du, L. C. 8247
Du, L. F. 3545
Du, S. H. 3443-3444
Du, W. G. 6304
Du, Y. Q. 677
Du Plessis, H. F. 1141-1142
Du Plessis, S. 2862
Du Plooy, C. P. 420, 1160
Du Preez, C. C. 46, 660, 6236
Du Toit, W. 777
Dua, I. S. 3947, 4382, 4668, 4692, 6809
Dua, S. 4551, 7781
Dua, S. P. 8711
Duan, B. W. 5627
Duan, J. X. 3424-3426
Duan, X. M. 4108
Duarte, P. 322
Duarte, P. J. P. 5048
Dubacq, J. P. 2830
D'Ubaldo, A. 8472
Dubas, A. 7306
Dube, A. 1589, 8289
Dube, H. C. 1092
Dube, J. N. 8500
Dube, S. D. 1008, 5755
Dubert, F. 5466
Dubey, O. P. 5314
Dubey, P. S. 7552
Dubey, R. K. 6847
Dubey, R. N. 2977
Dubey, R. P. 2200
Dubey, R. S. 4926, 4947, 5666, 7438
Dubey, S. K. 5013, 5772, 7830, 8378, 8682
Dubey, Y. P. 3944
Dubinia, I. M. 6842
Dubois, J. 5295
Dubrovskiĭ, I. I. 8013
Duce, P. 254
Duchène, E. 1032
Duck, N. B. 1415, 2209
Duczmal, K. W. 7614
Dudáš, F. 6356
Dudas, M. J. 3042
Dudash, P. J. 5732
Dudienas, C. 7528
Dudka, S. 709, 6635
Dudnikov, V. M. 4064
Duff, E. I. 6965
Duff, S. M. G. 6080
Duffek, M. 6845
Duffera, M. 1996-1997
Duffus, C. M. 2568
Dufrasne, I. 8162
Dufrene, E. O. 4631
Duggan, R. R. 4004
Duhr, E. 7306
Duijn, B. van 4596, 8695
Duijnhouwer, I. D. C. 7261, 7291
Duivenbooden, N. van 4650
Dukare, N. S. 2883, 4065
Duke, M. V. 2550
Duke, S. O. 2550, 8762
Dukes, P. D. 8468-8469
Dumas, C. 4877, 6461, 8678
Dumitriu-Tătăranu, L. 815
Dumitru, M. 6147
Dumont, R. 6882
Dunaeva, M. V. 7184
Dunaevsky, Y. E. 8704
Dunand, R. T. 4129, 8211, 8238
Duncan, D. W. 2710
Duncan, R. R. 2168-2169, 2710, 7456, 7458, 7468-7469
Duncanson, E. 2561
Dunckelman, P. H. 4631
Dungey, H. S. 1692
Dunne, B. 4008
Duque, F. F. 2793
Duquet, B. 7255
Durachko, D. M. 3827, 8100
Durai, R. 500, 5320, 6112, 7019
Duraisamy, K. 2364, 7027
Durante, M. 3974
Duranti, M. 1747, 8509
Đurđević, M. 91
Durdyev, B. 1170
Dure, L., III. 6038
Durge, D. V. 5038, 6926
Durham, R. E. 5916
Durieux, R. P. 7293, 8168
Durnin, D. 2570
Dürr, C. 1474, 1483
Durr, C. 2269, 2288
Durrant, M. J. 1756
Durst, F. 2037-2038, 8775
Durst, G. L. 2768
D'Urzo, M. P. 1729, 4371
Dusić, D. 5921
Dute, R. R. 1642, 3494
Duthion, C. 2891, 7610, 8513
Dutka, F. 3094
Dutoit, J. P. 7452
D'Utra Vaz, F. B. 907
Duţu, H. 147
Duvick, J. P. 169
Duwadi, V. R. 6188
Duyn, J. W. van 989, 4990, 6655
Düzbastılar, M. 1181
Dvořák, J. 3620, 6832
Dvornik, V. Ya. 614
Dwangan, M. K. 8456
Dwarakanath, N. 7337
Dwarkanath, N. 3572
Dweikat, I. 5558
Dwelle, R. B. 1804-1805
Dwevedi, V. D. 7385
Dwivedi, A. L. 6703
Dwivedi, B. S. 21, 35, 1033
Dwivedi, D. P. 6361
Dwivedi, G. K. 5177
Dwivedi, J. L. 1556
Dwivedi, M. 5177
Dwivedi, R. K. 4644, 5884
Dwivedi, R. N. 7564
Dwivedi, S. 8475

Dwivedi, S. L. 2810
Dwivedi, V. D. 7790
Dwyer, L. M. 5942
Dwyer, L. W. 3264
Dyck, F. B. 1377, 3903
Dyer, M. I. 6906
Dyke, G. V. 7131
Dyke, P. T. 577
Dymovich, A. 8768
Dyson, D. H. 4004
Džaletović, Ž. 91
Dželetović, Ž. 2635
Dzhangirov, A. A. 5436
Dzhokhadze, D. I. 6757
Dzhumaev, B. B. 3712, 8616
Dziamba, S. 6367, 7239, 7243
Eadie, A. G. 1511
Eagles, G. 2499
Eaglesham, A. R. J. 3304
Eapen, S. 4191
Earnest, L. 5430
Easson, D. L. 1828
Easterling, W. E. 577-581
Easton, G. D. 4468
Ebaid, M. A. 8427, 8611
Ebel, J. 6669
Ebelhar, M. W. 276
Eberhard, S. 8701
Eberlein, C. 8568
Eberlein, C. V. 7305
Ebermann, R. 7517
Echekwu, C. A. 1819, 6919
Echtenkamp, G. W. 277
Eck, H. V. 2577, 3889
Eckel, C. S. 989, 6655
Eckerskorn, C. 7227
Eckert, D. J. 2578, 7300, 7307
Eckert, H. 102
Edelbauer, A. 5284
Edelmann, H. G. 2210
Edge, O. T. 2235
Edje, O. T. 3560, 4339
Edmeades, D. C. 2486, 2488, 3064, 7172
Edmeades, G. O. 2632
Edmisten, K. L. 435
Edwards, C. R. 1500, 7359, 7557
Edwards, D. G. 2820
Edwards, G. E. 1204, 3826, 4069, 6152
Edwards, I. 6126
Edwards, L. M. 4014
Edwards, M. 7687
Edwards, N. T. 8351
Edwards, P. J. 2707
Edwards, W. M. 2578
Eeckhaut, G. 5366-5367
Eenaeme, C. van 8162
Effendi, H. 1265, 4612, 7877
Effmert, B. 3675
Efimov, V. N. 6362
Egan, B. T. 1955
Egawa, Y. 2873
Egger, J. 5709-5710
Eghbal, K. 446
Eghball, B. 5602, 7366
Egli, D. B. 1650, 2753, 6671
Egli, M. A. 5587
Egofarova, R. Kh. 5176
Egorov, A. V. 3202
Egorov, V. P. 3850, 8760
Egorova, V. A. 3202
Egusa, K. 994, 4996
Egutkin, N. L. 4081
Ehara, H. 842, 898, 920
Ehdaie, B. 6305
Ehlenfeldt, M. K. 5980
Ehleringer, J. R. 4345
Ehmann, B. 7843
Ehsanullah, M. 1870
Eichacker, L. 6389
Eichacker, L. A. 7275
Eichner, R. 7968
Eilers, R. J. 2768
Eiras, S. de P. 1071
Eisenhauer, D. E. 5551
Eissenstat, D. M. 3828
Ejeta, G. 4962, 7456
Ekanayake, H. M. R. K. 7083
Ekanayake, I. J. 416, 1156, 1803, 4494, 8270
Eksittikul, T. 7417
El-Alaoui, A. C. 4031
El-Antably, H. M. 7626-7627, 7755-7756
El-Ashmoony, M. S. 5407
El-Attar, A. H. 2888
El-Aziz, R. A. A. 7212
El-Bagoury, M. I. 7757-7758
El-Bahr, M. K. 5131
El-Banna, M. N. 7757-7758
El-Bassam, N. 1359
El-Beheiry, M. M. 300
El-Brahli, A. 4196
El-Daoudi, Y. H. 2462
El-Demerdash, M. H. 3556
El-Desouky, M. M. 2796
El-Din, T. M. S. 2462
El-Dingawy, R. 3832-3833
El-Fouly, M. M. 7600
El-Geddawy, M. A. H. 3760
El-Ghar, G. E. S. A. 2843
El-Gharbawy, A. A. 7699
El-Gizy, S. M. H. 3556-3557
El-Habbak, K. E. 7744, 7749
El-Habbal, M. S. 5722
El-Hadidi, M. M. 2462
El-Hady, O. A. 8552
El-Hajj, K. 8756
El-Hassan, S. M. 1787
El-Hattab, A. H. 2582-2583, 2586
El-Hawary, N. A. 7616
El-Hefnawy, N. N. 5407
El-Hyatemy, Y. Y. 5825
El-Karamity, A. E. 5407
El-Maghraby, S. S. 5931
El-Magid, H. M. A. 8025
El-Mashhadi, H. H. M. 107
El-Masry, M. A. 7616, 7744, 7749
El-Massry, A. A. 3407
El-Maziny, M. Y. 5861
El-Mihi, M. M. 7616, 7744, 7749
El-Monofi, M. M. 2462
El-Mourid, M. 968
El-Murshedi, W. A. 2582-2583, 2586
El-Naggar, H. M. M. 6055, 6058
El-Neklawy, A. S. 20
El-Noemani, A. A. 4722
El-Noemani, A. S. A. 5073
El-Nour, E. A. A. 5063
El-Oksh, I. I. 3556-3557
El-Ouakfaoui, S. 7069
El-Ouali, A. 968
El-Quesni, F. E. M. 1625, 8426
El-Razaz, M. M. 3699
El-Refaei, M. I. 3461
El-Sayd, F. E. 2462
El-Sayed, A. A. 3232
El-Sayed, H. 180, 3496, 4089, 4206
El-Sayed, M. A. 4206
El-Sayed, M. M. 5861
El-Shaer, M. H. 2582-2583, 2586
El-Shahaby, O. A. 326
El-Shall, A. A. 5421
El-Shami, M. M. 2462
El-Shanshoury, A. R. 269
El-Sharkawy, M. A. 4507
El-Sherbieny, H. Y. S. 7371
El-Sherif, S. I. 8614
El-Shimi, S. A. 779
El-Shinnawi, M. M. 779
El-Shourbagy, M. N. 269
El-Syiad, S. I. 3760
El-Titi, A. 1345
El-Wekil, H. R. 6437
El-Zahab, A. A. 3273, 3413
El-Zeiny, H. A. 5069
El-Zik, K. M. 1169, 6043, 8601
Elamin, M. A. 5543
Elayan, S. E. D. 4523
Elbehri, A. 4607
Elder, R. J. 7109
Eldredge, E. P. 1154, 5168, 5997
Elemery, M. I. 7818
Elfverson, C. 7252
Elgala, A. M. 5683
Elia, M. R. 4474
Elias, E. 1998
Elias, S. 56
Eliasson, L. 1476
Eliseu, J. M. 8368
Ella, E. S. 4938, 4940
Ellen, J. 7223
Ellerbrock, L. A. 3775
Elling, L. 7421
Ellis, B. E. 5276
Ellis, E. C. 1711, 2857-2858
Ellis, R. 8345
Ellis, R. H. 235, 1006, 2632, 3047, 5762, 6578
Ellmer, F. 7941
Elmes, D. 7977
Elmore, C. D. 272, 1611, 3804
Elmy, K. 1116
Elsikhry, E. M. 5683
Elston, J. 1873
Elthon, T. E. 2775, 5050
Elwaraky, M. K. 2902
Elzenga, T. M. 5843
Emerich, D. W. 7554
Emes, M. J. 2211, 5801, 7983, 8417
Emori, Y. 1574
Emtsev, V. T. 696
Enache, A. 7508, 7915
Enache, A. J. 756, 1298
Enciso-Medina, J. 2585
Endo, T. 189
Eneva, S. 3269
Engel, B. A. 4884
Engel, K. 3985-3986
Engelbrecht, C. 6229
Engelmann, F. 7891
Engels, C. 1528, 2110, 4088
Engels, T. 1386
Ennos, A. R. 6249, 7361
Enomoto, T. 4924
Ensermu, R. 2019
Enstone, D. E. 4096, 4671
Entrup, E. L. 2976
Entz, M. H. 4757
Entz, T. 4264
Enzmann, J. 5175
Eom, H. J. 1664
Epel, B. L. 178
Ephrath, J. E. 2122, 5229
Ephritikhine, G. 1882
Epifania, L. C. 1542
Eppendorfer, W. H. 1704
Epperson, J. E. 3271
Epstein, E. 5515, 5592
Erbach, D. C. 5543
Erdei, L. 8049
Erdmann, V. A. 2262
Erickson, D. A. 1856-1858
Ermak, M. M. 796
Ermakova, S. A. 165
Ernst, D. 1259
Ernst, H. 2445
Ersaçan, Z. 1181
Erskine, W. 6814, 8505
Es, C. L. van 6189
Es, H. M. van 6189, 7295
Esaad, H. B. 7371
Esaka, M. 3613
Esanov, P. 1178
Esashi, Y. 2835
Esau, B. D. 6166
Escobedo, J. F. 4677
Escuro, E. S. 4842
Esdaile, R. J. 6586
Esechie, H. A. 2581
Esen, A. 157
Eser, D. 1093
Eshanov, I. 1178
Eshel, A. 6720, 7113
Eshetu Lemma 7576
Eskandanian, H. 8015
Eskin, N. A. M. 5273
Esmail, S. E. 2843
Esparza, L. C. 8605
Espindola, E. S. 2351
Espinosa, M. A. 4623
Espironelo, A. 1903
Esquerré-Tugayé, M. T. 4598
Esquibel, M. A. 4409
Essa, A. M. K. 2462
Esser, G. 594
Esso, M. L. van 8329
Esswein, H. 497
Estabrook, R. W. 5855
Estelle, M. 4666
Ester, A. 8429
Estévez, A. 3670
Estrada, P. 7401
Esvan, J. M. 2091, 2096
Eswarappa, H. 3410
Etejere, E. O. 3787
Eua-Umpon, V. 6778, 6830
Eva, B. 3741
Evangelou, B. P. 3013, 3015
Evans, A. A. 4546
Evans, A., Jr. 2481
Evans, C. E. 1600
Evans, D. E. 6176, 6190, 6209
Evans, D. W. 804
Evans, E. J. 474, 1467, 4568, 5281, 6270
Evans, I. R. 2179
Evans, J. 6713
Evans, J. R. 3769
Evans, K. 5973
Evans, L. S. 7082
Evans, L. T. 5385
Evans, M. L. 1519
Evans, R. O. 2648, 8321
Evans, S. D. 3459, 4209, 4211
Evanylo, G. K. 138, 3910
Everaarts, A. P. 4173, 4282, 4987
Everse, J. 5388
Everts, K. L. 2026, 8044
Evett, S. R. 7939
Evlagon, D. 3328
Evstigneeva, Z. G. 5898
Eweida, M. H. T. 5063
Ewel, J. J. 3101
Ewert, F. 57
Ewing, M. A. 5910
Eyasu Elias 1998
Eyherabide, J. J. 1624
Eylands, V. J. 3056
Eyletters, M. 3526
Ezaki, S. 1731
Ezekiel, R. 5166, 5941, 6851, 6876
Eziakor, I. G. 8800
Fabbri, A. A. 4472
Fabbrini, M. S. 344
Fabijański, J. 2728
Faccini, N. 7268
Faci, J. M. 5611
Faci González, J. M. 6626, 7115
Fadayomi, O. 3787
Faeti, V. 4334
Fagerberg, B. 7947
Fageria, N. K. 851, 4157
Fagi, A. M. 8155
Fagnano, M. 371
Fahem, M. 2922
Fahlstadius, P. 334
Faiguenbaum M., H. 5264
Failde, V. 1061
Fairbairn, J. N. 2421
Fairey, N. A. 2536
Fairley-Grenot, K. A. 8434
Faisal, R. I. I. 7310
Faiyad, M. N. 3542
Faiz, B. 7387
Faki, H. H. M. 7672
Falbel, T. G. 1472
Falcis, D. de 7265
Falco, E. de 1373, 1740
Falisse, A. 617, 1225, 4707
Fall, R. 5912
Fallon, K. M. 4766
Fallot, J. 457, 1849, 6957, 7813
Faměra, O. 728
Fanelli, C. 4472
Fang, F. 8249
Fang, Z. J. 359
Fang, Z. L. 221

Fanous, M. A. 3854, 4979
Faou, J. M. 5397
Faraday, C. D. 1517
Farag, I. A. 4296
Fares, A. 6814
Farghaly, M. A. 4377
Farhutdinov, R. G. 7189
Faria, L. C. de 1071
Farihane, H. 8302
Farina, M. P. W. 773, 4849
Farineau, J. 7594
Faris, D. G. 2255, 8365
Farkas, B. 3130
Farmer, A. M. 1937
Farmer, E. E. 1789
Faroda, A. S. 1207, 1218, 3129, 4385, 5270, 5350, 5404, 5694, 5697, 6074, 6532, 8215
Farquhar, G. D. 3453, 5344
Farrag, A. A. 332
Farrar, J. F. 1962, 5794, 6296, 8122
Fasan, T. 1461
Fatteh, U. G. 3756
Fatyga, J. 719, 7088
Faue, A. C. 2569
Fauquet, C. 6881
Faure, G. 2314
Faure, J. 3324
Faure, J. E. 4877
Fausey, N. R. 8198
Favati, F. 4708
Fawcett, R. G. 6194
Fawzi, A. F. A. 7600
Fayaz Quazi, M. 4391
Faye, L. 8788
Faz Contreras, R. 4050
Fazekas, M. 1221
Feare, C. J. 4572
Feaster, C. V. 4528
Fechner, W. 8301
Fedenko, E. P. 95, 4075, 6453, 7352
Federico, F. 8178
Federolf, K. G. 3126, 7119
Fedorova, E. E. 3493, 8344
Fedorova, R. N. 2476
Fedorova, T. A. 2512
Fedorova, T. N. 3224
Fehling, C. 1663
Fehr, W. R. 4222
Fehrmann, H. 3169
Fei, H. L. 6478
Feierabend, J. 4801, 5337
Feigenbaum, S. 776
Feijter, A. W. de 4256
Feil, B. 2114, 2587, 2589, 6436, 6448, 7347
Feiters, M. C. 6665
Feitosa, C. de O. B. 3868
Feitosa, C. T. 3468
Fekete, A. 6052
Fekete, S. 6973
Feldwisch, J. 812, 5591
Felföldi, K. 8067
Felício, J. C. 1376, 2070
Felipe, M. R. de 8510-8511
Felle, H. 5591
Felle, H. H. 1247, 8177, 8182
Feller, U. 45, 651, 3939-3940, 5795
Fellous, A. 4875
Fen, G. Y. 5660
Feng, C. S. 795
Feng, F. S. 4881
Feng, Y. S. 4756
Fenner, M. 2707
Feofanov, S. N. 4736
Feoktistova, S. A. 1768
Feray, A. 4471
Fereres, E. 1172, 1213-1214, 1932, 6065, 7810
Ferguson, C. 8776
Ferguson, D. L. 2833, 5464
Ferguson, J. A. 7754
Ferguson, K. H. 1875
Ferguson, M. 6256
Ferguson, R. B. 139
Fernandes, G. M. B. 4111, 4335
Fernández, C. J. 430
Fernández, J. 4620
Fernandez, J. L. 7878
Fernández, M. 6656, 7740
Fernández, M. L. 3669, 4487
Fernandez-Pascual, M. 373, 8510-8511
Fernando, M. 741, 3248
Ferrão, J. E. M. 8827
Ferrari, F. 4809, 7118
Ferrari, V. 2202, 2204, 2231-2232
Ferrari-Iliou, R. 3824
Ferraris, R. 932, 6589-6590, 6617
Ferrazzoli, P. 6193
Ferreira, L. G. R. 356
Ferreira, P. A. 817
Ferreira Filho, A. W. P. 1376, 2070
Ferrer, A. 4313
Ferreras, J. M. 1058
Ferrero, C. 7264
Ferri, D. 1388, 8787
Ferrol, N. 453
Ferté, N. 7541
Fery, R. L. 8468-8469
Fésüs, I. 5391
Fettell, N. A. 6713
Fevraleva, L. T. 2512
Ficcadenti, N. 2202
Fichtner, K. 4595
Fidalgo, F. 8576
Fiedeldey, M. E. 1255-1256
Fiegenbaum, V. 3564
Field, C. B. 4336, 8445
Field, L. A. 1108
Field, S. P. 5537
Fielder, A. G. 517
Fieuw, S. 7623
Fiez, T. E. 6081, 6084, 6990
Figueiredo, L. 1009
Figueiredo-Ribeiro, R. de C. L. 1165
Filek, M. 5466
Filek, W. 2227
Filella, I. 8452
Filho, J. O. 5306
Filiche, E. 7150
Filipek, T. 7230
Filipović, R. 91, 2635
Filippis, R. de 8787
Filippone, E. 1084
Finch, H. J. S. 8826
Fincher, G. B. 2558, 3941, 4026, 7279
Finck, A. 4906, 5687
Finck, C. 5717
Findenegg, G. R. 245-246, 5686
Findlay, T. A. S. 4874
Finelli, D. 4461
Finer, J. J. 2895
Fink, K. 8011
Finke, P. A. 4834, 5206
Finogina, N. P. 6999
Fiore, G. 7384
Fiore, M. C. 1095
Fiorentino, S. 8027
Fioritto, R. J. 7520
Firgany, A. H. 5063
Firko, V. Yu. 554
Firsov, S. A. 3146, 8555
Fischbeck, G. 1390, 1906, 6254, 7121
Fischer, A. 3940, 4680, 6866
Fischer, C. 458, 3547, 4082, 5267
Fischer, G. 2769
Fischer, J. 5984
Fischer, K. S. 7577-7578, 7580
Fischer, R. A. 4733, 7137-7138
Fischer, W. R. 3067
Fisher, D. B. 4745, 6287
Fisher, J. A. 6376
Fisher, N. M. 473
Fitter, A. H. 5346
Fixen, P. E. 3290
Flach, B. 1908
Flagella, Z. 700
Flagler, R. B. 7551
Flannery, R. L. 8115
Flašarová, M. 3934
Fleischer, G. 7824
Flesch, T. K. 818-819
Flessa, H. 3067
Fletcher, R. A. 1861
Fleury, A. 2269, 2288
Fleury, Y. 5757
Florea, A. 468, 511
Flores, H. E. 494, 2424
Floris, G. 2896
Floryszak-Wieczorek, J. 5461
Flower, D. J. 3433
Flowers, T. J. 7926
Flügge, U. I. 536
Fluhr, R. 488, 1881, 7858
Flura, D. 1009
Foale, M. A. 6607, 7100
Fock, H. P. 8779
Föhse, D. 1318
Foin, T. C. 8278
Foley, J. K. 5356
Folk, W. R. 1415
Folsom, M. W. 5751
Fomin, V. S. 3522
Fond, J. H. 3459
Fonné-Pfister, R. 2617
Fontaine, O. 7292
Fontana, D. C. 297
Fontaneli, R. S. 3982
Fontenot, J. P. 574
Fonzo, N. di 700, 7266, 8029
Food and Agriculture Organization 8752
Foolad, M. R. 8255
Footitt, S. 3386
Forbes, J. C. 5386
Forbes, S. J. 3110
Ford, J. H. 4209, 4211
Foreman, J. W. 6593
Forest, F. 2408
Fork, D. C. 1473
Fornal, Ł. 3779
Fornara, M. 7451
Foroud, N. 4264
Forseth, I. N. 2183
Forsman, C. 7605
Förster, F. 5173
Förster, J. C. 6048
Fortes, M. 2954
Forti, E. 5993
Fortin, J. P. 5944
Fortin, M. C. 7297
Fortin, M. C. A. 762
Fortini, S. 392
Fortnum, B. A. 6090
Fosket, D. E. 3835
Fossati, A. 636, 711, 2025, 3155, 3220, 4741, 6273, 6354-6355, 7871
Fossati, D. 636, 711, 2025, 3155, 3220, 4741, 6273, 6354-6355
Foster, H. L. 5784
Foster, K. R. 4829, 5500, 8136
Fotyma, M. 705
Foucart, G. 2088
Fournier, J. 4598
Fowke, L. C. 2630, 5758
Fowler, D. B. 4715, 4729, 4757
Fox, T. C. 2390
Foy, C. D. 2168, 2348
Foy, C. L. 6905
Foyer, C. 2036, 3019
Foyer, C. H. 319
Fracassi, M. 2251, 8472
Frączek, J. 4003
França, G. E. 2092
França Neto, J. de B. 4216
Frančáková, H. 1389, 6363
France, Centre de Coopération pour les Recherches Scientifiques au Tabac 1958
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Franceschi, V. R. 2777, 3490, 5004
Franchi, A. S. de 1373
Francis, C. A. 6195
Francis, D. 1422
Francis, D. D. 7343
Francis, G. S. 3682
Franck, F. 342, 6391, 6761, 7269, 7639
Franco, I. 7400-7401
François, E. 2278
François, J. M. 6094
Francois, L. E. 1201, 5469-5470, 6327
Frank, A. B. 5534
Frank, J. A. 8095
Frank, J. R. 8802
Frank, K. D. 258
Franke, G. 5173
Franklin, J. 8082, 8088
Frans, R. 5430
Frans, R. E. 1196
Franssen, H. J. 8527
Franz, R. E. 4590
Franzel, S. 1966
Frascaroli, E. 7358
Frattini, F. 3919, 6631
Frébort, I. 7607
Fredlund, K. M. 8579
Fredrikson, K. 8777
Freebairn, D. 6131
Freebairn, D. M. 2510, 2744
Freeden, A. L. 8445
Freeling, M. 6460
Freer, J. B. S. 314, 1837, 5253
Freese, R. C. 8153
Frégeau, J. 7194
Freimüller, B. 5557
Freire, J. M. 1665
Freire, M. J. 8368
Freitas, A. L. P. 1085
Freitas, J. G. de 1376
Freitas, J. R. de 1440-1441
Freitas, S. S. 4290
French, O. F. 1171
French, P. 1540
French, R. J. 5910, 6127
Freney, J. R. 625, 2591
Frensch, J. 1514, 7354
Fresco, L. O. 2421
Frey, F. 2342
Frey, H. M. de 2897
Frey, T. 6669
Freyer, B. 7157
Fricke, W. 4755
Frid, D. 4309
Fridlyand, L. E. 8046
Friedman, M. 1797
Friedrich, H. P. 1237
Friesen, D. K. 2734
Frisullo, S. 8030
Fritig, B. 5263
Fritz, V. A. 2824, 3337
Fritzen, C. 6449
Fröhlich, V. 3939
Frommer, W. 3628
Frosch, W. 4425
Froseth, J. A. 6365
Frova, C. 940, 3305, 3309
Frugone, M. I. 8196
Fry, B. 2401
Fry, J. C. 8837
Fry, S. C. 830, 2210, 2388, 5343, 8175, 8447
Frydecka-Mazurczyk, A. 5195, 5209-5210
Fu, C. Z. 5913
Fu, J. R. 8390
Fu, Q. A. 4345
Fu, S. Z. 6969
Fu, W. 534
Fu, W. H. 4566
Fuchs, C. 1605
Fuchs, H. 1610
Fuchs, M. 1771
Fuerst, E. P. 2472, 2856
Fuhrer, J. 5353
Fuhrmann, J. J. 3498, 5773
Fujieda, K. 4418
Fujihara, K. 201
Fujii, H. 271, 2691, 8216
Fujii, T. 2545, 3023
Fujii, Y. 7692

Fujimori, T. 5192
Fujimura, Y. 6533
Fujioka, S. 7426
Fujita, K. 1591, 2746, 4880, 5918
Fujita, M. 1404
Fujita, Y. 2551, 6533
Fujiura, T. 7356
Fujiwara, M. 1715
Fukai, S. 1161, 5084, 6607, 7460-7461, 7463
Fukamachi, S. 885
Fukazawa, M. 193
Fukuoka, T. 1327
Fukuyama, M. 2513
Füleky, G. 2033, 3277, 3840
Fulkerson, R. S. 4852
Fuller, R. M. 1950
Fullone, M. R. 8183
Fulton, A. E. 3902
Fulzele, G. R. 2814, 7561, 7568, 8371
Fumosinski, T. F. 6875
Funatsu, G. 7236
Funatsuki, H. 118
Funk, C. R. 8115
Funk, R. 1906
Furlani, P. R. 7457
Furlani Júnior, E. 1975
Furman, D. T. 3010
Fursov, O. V. 53
Furtula, V. 170
Furuichi, Y. 5842
Furukawa, N. 5866
Furukawa, T. L. 8674
Furuya, M. 810, 5813, 7843
Furuyama, M. 201
Fusková, E. 463
Fussell, L. K. 5703, 8295
Fussell, M. 7826
Futsuhara, Y. 2158, 2871, 4362
Fyson, A. 6473
Gaafar, S. A. 3407
Gabdulkhaeva, B. B. 3454
Gabel', B. V. 5207
Gaber, A. A. 5931
Gaber, E. A. 7744
Gabińska, K. 7244
Gadagi, D. D. 5218
Gadakh, S. R. 8603
Gadal, P. 4960, 7459
Gadekar, D. A. 8281
Gafarova, T. 323
Gaffe, J. 4539
Gafurov, R. G. 7074
Gagarina, A. B. 6002
Gagnon, H. 2260, 4403
Gagro, M. 4066
Gahan, P. B. 5805
Gahure, C. K. 6963
Gai, J. Y. 5756
Gaillard, C. 391, 3628, 8535
Gaiser, T. 3302
Gaivoronskaya, L. M. 6837
Gajanan, G. N. 7574
Gajaseni, J. 1967
Gajbhiye, D. T. 6902
Gajendra Singh 2436, 8319, 8465-8467
Gajri, P. R. 6, 5411, 5478
Gakuru, S. 2621
Gal, A. 4309
Galal, M. S. 3461
Galap, C. 3019
Galatis, B. 2876
Galaup, S. 348
Galeev, R. P. 5185
Galerani, P. R. 4060
Galiba, G. 7201
Galili, G. 2498, 7197
Galindo, I. C. 3694
Gałka, A. 6235
Gall, H. 1773, 5170, 5197
Gallagher, D. 8565-8566
Gallant, C. E. 4014
Gallardo, M. 4395
Gallet, O. 391, 3628, 8535
Galletti, G. C. 2499
Galli, A. 3859
Gallo, P. B. 7457, 7528
Galterio, G. 3919, 6631
Galtier, N. 5577
Galun, E. 5457
Galvão, J. D. 5548
Galvez, L. 7455
Galway, M. E. 5758
Gambhir, P. N. 3178, 3192
Gamble, E. E. 2750, 4212
Gamboa, D. E. 63, 82
Gamboa, J. 5567
Gambrell, R. H. 6368
Gamburg, K. Z. 1920, 3174
Gamenţ, E. 6147
Gamzikov, G. P. 1462
Gan, C. 3035
Gan, S. W. 8277
Gan, Y. 3893
Ganai, B. A. 5630
Gandah, M. 4193
Gandhi, M. B. 3588
Gandhi, V. 5872
Ganesh Singh 3637
Gang, G. P. 6673
Gangadharan, C. 6482
Gangaram, A. 1549
Gangopadhyay, S. 6558
Ganguli, S. 5451
Gangwar, B. 8799
Gangwar, K. S. 5678, 5895, 7048, 8286, 8739
Gangwar, M. S. 6545
Ganmore-Neumann, R. 6445
Ganpat Singh 2720
Ganry, F. 2592
Gans, P. 3879
Ganson, R. J. 5987
Gantar, M. 2054, 6330
Gantzer, C. J. 5552
Gao, A. L. 6673
Gao, G. L. 959
Gao, H. Y. 5738
Gao, J. F. 795
Gao, L. Z. 2154
Gao, Q. 6915
Gao, R. S. 4682
Gao, S. H. 359, 7211
Gao, X. P. 1422
Gao, Y. Z. 6560, 8332
Gao, Z. 6433
Gao, Z. P. 6382
Gao, Z. R. 2960
Gapinski, J. 6731
Gaponenko, V. I. 7613
Gara, L. de 3989
Garab, G. 6717
Garcés, R. 454
Garcha, A. I. S. 7033
Garcha, H. S. 4953
García, C. 2543
Garcia, F. 6577
Garcia, F. D. 4113
García, I. 7890, 8730
García, M. 3353
García, O. 8582
Garcia, R. 8279
García-Casado, G. 4028
García de la Osa, J. 4917
García del Moral, L. F. 717, 744, 8147
García del Moral, M. B. 717, 744, 8147
García-Durán, M. E. 944
García-Martínez, J. L. 2253, 3586, 5806, 8473
Garcia Medina, S. 1061
García-Olmedo, F. 8066
García-Pérez, R. D. 8648
Garcia Rudnikas, J. 4896
Gardellino, R. A. 5667
Gardeström, P. 8105, 8128
Gardner, A. 2301
Gardner, F. P. 6245
Gardner, H. W. 5067
Gardner, J. C. 931
Gardner, R. 3064
Gardner, R. C. 7175
Gardner, W. K. 6194
Gareis, C. 7537
Garélík, Ĭ. Ĭ. 4027
Garg, A. K. 5857
Garg, B. K. 6934
Garg, D. K. 1555
Garg, N. 6809, 8424
Garg, O. P. 1100, 6809
Garlaschi, F. M. 6442
Garnett, E. R. 2743
Garrido, D. 1886
Garriga, J. 5583
Garrity, D. P. 873, 5100, 5102, 5863, 8231
Garside, A. L. 6610
Garstang, J. R. 104, 1463
Gartrell, J. W. 1396
Garz, J. 5155
Garza López, J. G. 6659
Garzón, J. 8582
Gascho, G. J. 1501
Gaskin, P. 5055, 8185
Gaşpăr, I. 96, 3233
Gaspar, T. 4438, 4441, 8536
Gašparíková, O. 3293
Gate, P. 68, 268
Gatenby, A. A. 7227
Gates, D. M. 7114
Gathua, K. W. 2094, 2176
Gatoria, G. S. 5093
Gatto, A. del 2232
Găuca, C. 437
Gaudchau, M. 5255
Gaudillère, J. P. 5440
Gaunt, R. E. 3241, 3245
Gaur, A. 6991
Gaur, A. C. 256, 4957
Gaur, B. L. 7840
Gaur, M. L. 1348
Gausman, H. W. 1963
Gautam, D. S. 6942
Gautam, H. C. 973
Gautam, J. K. S. 6109, 7564
Gautam, K. C. 6277
Gautam, N. C. 5139, 5180, 5903, 8561
Gautam, R. C. 7394, 8743
Gauthier, J. 4615
Gavarayya, C. 442
Gavilanes-Ruíz, M. 155
Gavioli, E. A. 1542
Gavrilenko, V. F. 2028
Gavrilova, V. A. 4725
Gawad, A. M. A. 8464
Gaweesh, S. M. 1625
Gawer, M. 490
Gawrońska, H. 1804, 4006
Gawrońska-Kulesza, A. 3052
Gayle, G. A. 7296
Gaynar, D. G. 4950, 5655
Gaynor, J. D. 2189, 5763
Gaziyants, S. M. 8608
Gbur, E. E. 3343, 3380, 4251, 5767
Ge, Q. Y. 6304
Gealy, D. R. 2472
Gebert, J. 1227
Gebeyehu, G. 2024
Gebre-Mariam, H. 2024
Gedikoğlu, I. 8016
Geelen, D. 8519
Geeta, G. S. 37
Geetha, S. 8517
Gehriger, W. 7709
Gehring, C. A. 4083
Geigenberger, P. 8578, 8634
Geiger, D. R. 1134
Geijn, S. C. van de 4696
Geisler, G. 2415, 2608, 2998, 3294-3295, 6436, 6448, 7228, 7280
Geissler, A. E. 8187
Geissler, P. A. 120
Gelderman, R. H. 3290
Geleta, B. 2024
Geleta, S. 1997
Gelimbatovskaya, R. V. 1132
Gelli, A. 3627
Gellner, J. L. 1382
Gemechu Keneni 7576
Gemel, J. 1530, 2214, 6726
Gemmell, F. M. 2846
Genchi, G. 8191
Generozova, I. P. 4778
Genet, R. A. 8565-8566
Gengenbach, B. G. 5587
Gennity, I. 3068
Gentry, L. E. 149, 8158
George, E. 2887, 3601
George, J. 4509
George, L. 4191
George, P. J. 6797
George, T. 586, 3486
Georgiev, G. Ĭ. 3462
Georgiev, G. T. S. 8732
Georgieva, E. I. 2117
Gerahty, N. 302
Gerardy, V. 1225
Geremia, R. 8519
Gerendas, J. 8170
Gerhardt, B. 6956
Gerhart, K. E. S. 8083
Gerik, T. J. 251, 7444
Germany, Bundesforschungsanstalt für Landwirtschaft Braunschweig-Völkenrode 6198, 7972
Germany, Centre for Agricultural Documentation and Information 8839
Germany, Council for Tropical and Subtropical Agricultural Research 8839
Germany, Gesellschaft für Pflanzenbauwissenschaften 2415-2416
Germany, Kuratorium für Technik und Bauwesen in der Landwirtschaft e.V. 8810
Germida, J. J. 1440-1441
Gerrish, C. 7595
Gershenzon, J. 7812
Gertsuskiĭ, D. F. 3172
Gerzabek, M. H. 5354
Geshi, N. 8311
Getahun, A. 515
Getinet Gebeyehu 2024
Getz, H. P. 4633
Geuns, J. 89
Gevers, H. O. 1361
Geyer, B. 2610
Geypens, M. 2278
Ghadekar, S. R. 6562, 7070
Ghafoor, A. 7495
Ghanekar, A. M. 1099
Ghanem, E. H. 2462
Ghanem, S. A. 5131
Gharib, I. M. 3555
Gharsalli, M. 7808
Ghawi, I. O. 4333
Ghazali, H. M. 1733
Ghersa, C. M. 8329
Ghiena, C. 4327
Ghildiyal, M. C. 5282
Ghimire, A. J. 6188
Ghole, V. S. 6872
Ghoneim, M. F. 8025
Ghorai, A. K. 516
Ghose, P. K. 1216
Ghose, T. 666
Ghosh, A. 5101
Ghosh, A. K. 3344, 5647, 7881
Ghosh, B. 5874
Ghosh, B. C. 2656, 5114
Ghosh, B. K. 5022
Ghosh, D. C. 2150, 6222
Ghosh, P. 2898, 6825
Ghosh, R. K. 5867
Ghosh, S. 8340
Ghule, B. D. 8640
Ghungarde, S. R. 7785
Ghurayya, R. S. 7511
Giacometti, G. M. 8407
Giamalva, M. J. 4631
Giametta, G. 3692
Gianibelli, M. C. 618, 3139
Giardini, L. 301
Gibb, B. J. 7928
Gibbons, R. W. 3509, 6703, 8386
Gibeaut, D. M. 4672, 8171
Gibson, G. 602, 1583, 6587
Gibson, P. T. 7522
Giddings, T. H. 6165
Gidley, M. J. 7687
Gielen, M. 8162
Giese, H. 2991
Gietl, C. 1924

Gifford, R. M. 3089, 7531
Gigou, J. 2731
Gil, V. 8730
Gilabert, M. A. 2716
Gilbert, J. 6283
Gildow, F. E. 8095
Giles, L. 7530
Gilkes, R. J. 1455, 2446, 5419, 5481, 6259
Gill, A. S. 4355, 5129, 7588, 8739
Gill, C. K. 6660
Gill, G. S. 3164, 3212
Gill, H. S. 2263, 7322, 8242
Gill, K. H. 8626
Gill, K. S. 612, 949-952, 2464, 3922, 4192, 4948, 5535
Gill, M. A. 5579, 8054
Gill, M. B. 2257
Gill, M. P. S. 5127
Gill, M. S. 6073
Gill, O. P. 5398, 7572
Gill, P. S. 884
Gill, R. 2819, 4603
Gill, S. S. 4915, 8518
Gillani, S. N. A. 2435
Gillenberg, C. 669, 5442
Giller, K. E. 3560, 4337, 4339, 6682
Giller, Y. E. 2397
Gillespie, G. R. 786
Gillespie, J. G. 7928
Gillespie, R. N. 3135, 6395
Gilley, J. R. 1299
Gillikin, J. W. 294, 998
Gilmanov, M. K. 3186
Gilroy, S. 4825, 6393, 8134
Ginkel, M. van 2024
Ginodman, L. M. 3186
Ginsburg, S. 8673
Giordani, G. 8086
Giordano, I. 4295, 4334
Giordano, L. de B. 331
Giorgio, D. de 23, 1388, 3044
Giovanardi, R. 1461, 2534
Giovannini, T. 1779
Gipson, R. D. 1234, 6434
Giraldez, J. V. 2593
Girardin, P. 148, 3331
Giraudo, L. J. 4531
Girbés, T. 1058
Giri, G. 6047
Giridhar, K. 6047
Girijesh, G. K. 2815
Giriraj, K. 450, 462
Girma, F. S. 2712-2713
Giron, V. S. 8114
Girothia, C. P. 5673
Giudici, M. L. 7384
Giuliari, S. 1147
Giunta, F. 8073
Giuntoli, A. 254
Givan, C. V. 1923
Givan, W. D. 4235
Giyasov, T. D. 6907, 8619
Giza, A. 5490
Gizaw, A. 7620
Głąba, B. 8304
Gladish, D. K. 8423
Glamočlija, Đ. 140
Glandorf, D. C. M. 5204
Glasbey, C. A. 3099
Glasby, J. S. 7111
Glasgow, G. M. 8569
Glass, A. D. M. 538, 741, 1477-1478, 2554, 3248, 5519, 8052
Glass, K. M. 4968, 8303
Glaszmann, J. C. 7891
Glaz, B. 7032, 7882-7883
Glazkova, G. A. 4450
Glazova, Z. I. 1596
Gleba, Y. Y. 1091
Gleba, Yu. Yu. 1091
Gleeson, S. K. 2385
Glencross, R. N. 5481
Glenn, E. P. 3764
Glick, R. E. 6718
Gliddon, C. J. 5472
Glimelius, K. 470
Glinka, Z. 6611
Glušac, D. 3286
Gluska, A. 415
Gluzdo, O. V. 3174
Gmunder, F. 4577
Gnanam, A. 8471
Gnanam, R. 1111
Gnanamani, A. 1548
Goad, J. 4308
Godbole, S. H. 3588
Goel, S. 6447
Goenaga, R. 1163
Goense, D. 4834
Goethals, K. 8519
Goetz, R. 3102
Goffart, J. P. 2001, 2278
Goffner, D. 491, 2985
Goffredo, S. 8803
Gogala, N. 5989
Gogna, R. 3732
Gogoi, A. K. 3373
Gogoi, H. N. 5415
Gogoi, P. K. 7831
Gogorcena, Y. 1866
Gogotov, I. N. 858
Göhlich, F. 7967
Gojon, A. 2187
Gokte, N. 930
Golakiya, B. A. 3908, 5026
Golberg, A. D. 1432
Gold, H. J. 2762
Goldbach, H. 4780
Goldberg, R. 2515, 7859, 7932-7933
Golden, J. L. 8674
Golds, T. J. 7285
Goldschmidt, E. E. 1315
Goldstein, G. 55, 2371
Goldsworthy, A. 7866
Gol'dvarg, B. A. 3160
Golenetskiĭ, S. P. 6337, 8103
Goli, A. E. 6789
Golisch, G. 7481
Gollamudi Lakshminarayana 3456
Golmirzaie, A. 4478
Golovinsky, E. 8131
Golovko, È. A. 1117
Golub, I. Ā. 1453, 3995
Golz, A. 4307
Gomaa, A. A. 2462
Gomaa, M. A. 5931, 7498, 7515, 7621, 7745-7746, 7757-7758, 7761-7763
Gomarasca, M. A. 3859
Gómez, D. 1850
Gómez, F. 4179
Gomez, F. 6604
Gomez, L. 3952
Gómez, M. 5061
Gomez-Aparisi, J. 3261
Gomosta, A. R. 217
Gonçalves, A. R. 5667
Gonçalves Henriques, R. 7954
Goncharova, I. V. 7613
Gong, Q. S. 1469
Gong, Y. S. 2952
Gontaraŭ, U. S. 3996
Gontia, A. S. 7251
Gonzáles, D. 3311
Gonzales, P. B. 853
Gonzales, R. A. 657
Gonzalez, A. 8605
González, A. A. 8730
Gonzalez, F. 6192
González, G. A. 2034
González, M. 1543
González, M. E. 3670
González, P. 2593, 8066
González, P. J. 4620
González, R. 3812, 7398
González-Alonso, F. 3099
González Alonso, F. 5714
González-Darós, F. 3217
González-Hernández, A. 944
González-Hernández, V. A. 6614
Gonzalez-Murua, C. 3168
González-Romo, P. 155
Good, A. G. 742, 5525
Good, A. J. 6596-6597
Goodfellow, V. J. 5585
Gooding, M. J. 4740, 6627
Gooding, R. W. 1446
Goodlass, G. 518
Goodman, B. A. 2966
Goodman, M. M. 1534, 8206
Goodman, W. R. 1186
Goodrum, D. E. 6060
Goodship, G. 6625
Goodspeed, T. H. 8703
Goodyear, J. D. 8550
Gopal, M. 1736
Gopalan, M. 5868-5869
Gopalasamy, N. 4047
Gopalswamy, A. 3357, 6521
Gorashi, A. M. 2009
Gorbach, T. I. 8165
Gordon, A. J. 1962, 5919, 8347
Gordon, L. Kh. 5455, 5458, 6288
Gore, P. J. 699
Górecki, R. J. 2835
Gorelik, I. I. 1198, 4027
Gorenkova, L. G. 1824, 8106
Gorfu, A. 1974, 1981, 1985, 2008
Görge, E. 4424
Gorge, J. L. 1039
Gorham, J. 1435
Gorinstein, S. 6104-6105
Górnicka, O. 6391
Gornicki, P. 7181
Gorobets, S. A. 1117
Gorovaya, A. I. 8408
Górska, K. 3960, 4606
Górski, T. 3960
Gorunović, M. 4541
Goryneva, O. V. 5176
Gorzelany, J. 4428
Gosal, S. K. 4953, 5319
Gosal, S. S. 5319
Gossett, B. J. 7524
Goswami, M. 5136
Goswami, N. N. 4836
Goswami, P. K. 4628
Goswami, S. P. 6076
Goswami, S. R. 281
Goswan, N. N. 282
Goth, R. W. 5968
Gotou, T. 895
Gouda, M. 5782
Gouda, M. A. 2462
Goué, B. 2312
Gough, S. 664
Goulding, K. W. T. 588, 8010
Gour, G. R. 3351
Govi, G. 4334
Govindan, A. 5646
Govinden, N. 401, 418, 587, 1782
Govindjee 8763, 8829
Govindra Singh 43
Govoni, F. 4461
Gowda, A. 7391, 7657
Gowda, C. L. L. 1103, 8365
Gowing, D. J. G. 5589
Goyal, A. K. 4553, 5033
Goyal, K. C. 6901
Goyal, N. K. 4073
Goyal, R. 5934
Goyal, R. C. 2519
Goyal, S. K. 8232
Goyne, D. P. 7637
Grabau, L. J. 1001, 7497
Grabski, S. 4256
Gracdin, M. 4441
Grace, J. 592
Graebe, J. E. 3255, 8133
Graetz, D. A. 7716
Graf, A. 1755
Graf, B. 4130
Graff, P. S. 7992
Grafskaya, G. A. 103
Graham, J. H. 7555
Graham, J. S. 294, 998
Graham, M. J. 7536
Graham, P. H. 1110, 2901, 4407, 5844
Graham, R. D. 2222, 3935
Graham, W. D., Jr. 6368
Gramlow, J. 7795
Graña, X. 5583
Granade, G. V. 7514
Granell, A. 2215
Granstedt, A. 2405
Grant, C. A. 6935
Grant, R. F. 2791, 4992-4993, 8148
Grant, R. H. 818-819
Grant, S. A. 6936
Grantz, D. A. 2371
Grashoff, C. 3551, 3990
Grassert, V. 2926
Grassi, G. 7247
Grassi Filho, H. 4242
Grau, P. 1553
Graul, W. 98
Graven, L. M. 1492
Graves, C. B. 5365
Graves, J. D. 6605
Gravoueille, J. M. 4462, 5194
Grayson, B. T. 6280
Grayson, R. L. 5316
Graziano, T. T. 1165
Grechkin, A. 49, 323, 410
Greco, S. A. 5133
Greef, J. de 89
Greef, J. M. 2482-2483, 3294-3295, 7967
Green, B. 8554
Green, C. C. 4516
Green, J. T. 4067
Green, J. W. 6281
Greenberg, B. M. 8679
Greenberg, D. C. 7581
Greene, L. J. 6105
Greenfield, P. L. 6252
Greenway, H. 3199, 5462, 8512
Greger, M. 3630
Gregersen, A. K. 5498
Grego, S. 8178
Grégoire, R. 7952
Gregorczyk, A. 3991
Gregorová, H. 463
Gregory, P. J. 5474, 6214, 7355
Gregson, K. 7182
Greppin, H. 1700, 4438
Gresshoff, P. M. 302, 6217, 6679
Gretzmacher, R. 7499, 7548
Grevis-James, I. W. 3033
Grewal, G. S. 3731
Grewal, H. S. 5414
Grewal, J. S. 5172
Grewal, R. D. 4079
Grewal, R. P. S. 3422
Grewal, S. K. 4904
Grewal, S. S. 2099
Grib, S. I. 3214
Griess, I. 3643
Grieu, P. 69
Grieve, C. M. 5469-5470, 6327
Griffin, J. L. 2764, 3478, 6651
Griffin, T. S. 7482
Griffing, L. R. 2774, 3992, 5007
Griffith, M. 1454, 6351, 7539, 8108
Griffiths, D. W. 2845, 3674
Griffiths, H. 8833
Griffiths, P. G. 5804
Griga, M. 4260, 7647
Grigaliūnienė, A. 7911
Grigg, B. 3343
Grignani, C. 7264
Grignon, C. 993, 5577
Grigorchuk, A. P. 7944
Grigor'ev, V. Yu. 7074
Grigoryuk, I. A. 613, 5408
Grillo, S. 1729, 4371
Grima-Pettenati, J. 491
Grimes, H. D. 2777, 3490, 5004
Grimm, R. 7227
Grimm, S. S. 5752
Grimme, H. 1608
Grimshaw, C. 7361
Grinieva, G. M. 3327
Gripwell, E. 5978
Grishina, E. E. 2890
Gritsaĭ, A. D. 22
Grochowicz, J. 3954
Grodzinskiĭ, D. M. 8702
Groenwold, J. 3539
Grolier, N. 5194

Gromyko, O. I. 8751
Gronwald, J. W. 5587
Groom, Q. J. 3171
Groot, W. J. M. de 2948
Gross, K. G. 4757
Gross, O. K. 4450
Grosselindemann, E. 3255, 8133
Grossman, K. 8782
Grossmann, K. 1429, 6172, 8675
Groten, S. M. E. 7477
Groth, D. E. 4121, 4125, 8238
Grove, J. H. 1375, 5570, 6648, 7332, 7497
Grove, M. J. 158
Grover, S. D. 4864
Groves, S. J. 3638
Groza, N. 134, 523
Gruezo, S. S. 7736
Grumeza, N. 8791
Grün, M. 5202
Grund, A. 26
Grundas, S. 6313
Gründemann, E. 6958
Grunefeld, A. 5158
Grunert, C. 5347
Grunes, D. L. 653, 659, 1416, 3881, 6292, 6323, 8053
Grusak, M. A. 7599
Gruzinskaya, N. A. 8604
Gryndler, M. 4094
Grzelak, K. 4006
Grzesiak, S. 6466
Grześkiewicz, H. 1777-1778
Gu, J. R. 841
Gu, J. X. 3860
Gu, X. X. 3578
Gu, Y. M. 204
Guafa, W. 7503
Guan, G. P. 6841
Guan, W. H. 6394
Guan, Y. N. 6624
Guan, Y. Z. 1552
Guarda, G. 1147
Gubanova, O. N. 7597
Gubbaiah 1551
Gubbels, G. H. 142, 3777, 6939-6940
Gubiani, R. 839
Guckert, A. 69, 674, 3631, 4862
Guedes, G. A. A. 2092
Guéra, A. 1479
Guerbette, F. 154
Guerif, M. 7216
Guern, J. 1882
Guern, N. 490
Gueron, I. 146
Guerra, A. F. 7127
Guerrero, J. R. 5560-5566
Guerrero, M. G. 1965
Guerrier, G. 1652, 4266
Guerrieri, N. 8509
Guevara, E. 1766
Guevara, L. M. S. 8592
Guevara, M. A. 8730
Guggari, A. K. 425, 427, 2315, 4520, 4555
Guhe, Y. S. 3417, 8382
Guidi, L. 4564, 6328
Guiducci, M. 298, 8027
Guikema, J. A. 1713, 5464
Guillemette, R. 4270
Guindo, D. 3348
Guinn, G. 7769
Guiot, J. 617, 2001, 2278
Guiragossian, V. 6604
Guiraud, G. 1124
Guitjens, J. C. 6247
Guitman, M. R. 2497
Gukasyan, I. A. 414
Gul, K. 8020
Gulati, A. 4363
Gulati, J. M. L. 1400
Gulati, S. L. 2163
Guled, M. B. 2165
Gulewicz, K. 4405
Guliev, N. M. 8494
Gulik, W. M. van 1257
Gulyaev, B. I. 7944
Gulyaev, B. T. 3288
Gulyaka, M. I. 4426
Gumaste, S. K. 4956, 5679
Gumbs, F. A. 7661
Gummatov, N. G. 5708
Gunadi, N. 2921
Gunapala, N. 2668
Gunasekaran, S. 8208
Gunasekera, D. 682
Gunavardana, D. N. 2682
Gunawardena, S. F. B. N. 6773, 8333
Gündel, S. 4684
Gunderson, C. A. 2188
Guns, M. 2178
Gunse, B. 159
Gunsolus, J. L. 3474
Günther, R. 1931
Guo, A. 892
Guo, F. S. 7547
Guo, J. P. 7211
Guo, L. 5853
Guo, M. H. 6319
Guo, R. Q. 2222
Guo, X. W. 4566
Guo, Y. H. 5759
Guo, Y. L. 6968
Guo, Z. F. 6513
Gupta, A. 883, 1334, 6859, 8479
Gupta, A. K. 1741, 2659
Gupta, A. P. 4073, 4921, 7177, 8525
Gupta, A. S. 4604
Gupta, C. P. 1895
Gupta, C. R. 6849
Gupta, D. K. 4188
Gupta, G. 288, 4991
Gupta, H. S. 4144
Gupta, I. N. 5327, 8021
Gupta, J. P. 8557
Gupta, K. 3076, 5286, 5345
Gupta, M. 1706, 6740
Gupta, M. L. 1248, 3411, 6117
Gupta, M. P. 8617
Gupta, O. P. 5398
Gupta, P. 2612
Gupta, P. C. 5301, 7989-7990, 8712-8713
Gupta, P. K. 2903
Gupta, R. 8525
Gupta, R. A. 1667
Gupta, R. K. 2517-2518
Gupta, R. P. 5319, 5881, 8518
Gupta, S. 5934
Gupta, S. B. 3356, 7036
Gupta, S. C. 4390, 5697, 8397
Gupta, S. K. 3079, 5033, 6477, 6991
Gupta, S. P. 883, 5725
Gupta, T. R. 1248
Gupta, U. C. 6157, 7719, 8542
Gupta, V. K. 630, 2834, 4751, 5725, 8635
Gurbaksh Singh 3894, 3912, 4357, 5283
Gurchenko, A. P. 3698
Gurdeep Kaur 1187
Gurdev Singh 2464, 3891
Gurdip Singh 3731
Gureeva, M. N. 4229
Gurkirpal Singh 5414
Gurmeet Singh 5113
Gurmel Singh 2427
Gurmu, M. 3964
Gurriel, M. 5582
Gurtu, S. 2810
Gurumurthy, R. 2603
Gurung, B. D. 3508, 5417, 5511-5512, 5619, 6221, 7049
Gurung, G. B. 3508, 5512, 5619, 7049
Gurung, M. B. 3508, 5511, 5619, 6221, 7049
Guruprasad, K. N. 6101, 8197
Gururajan, K. N. 4526
Guseĭn-Zade, F. P. 5893
Gusev, M. V. 7817
Gusev, N. G. 6954
Gusta, L. V. 2570
Gustin, R. D. 1513
Gut, M. 3128
Gutmański, I. 1123, 2277, 8529
Gutschick, V. P. 7809
Gutser, R. 4780
Gutteridge, R. J. 1457, 6633
Guttman, N. B. 7965
Guttormsen, G. 5167
Guy, C. B. 5430
Guyot, G. 3096
Guyot, P. 624
Guzmán, E. 5899
Guzmán, J. de J. 1719
Guzmán, M. 2859
Guzmán Ruiz, S. 4262
Gvozdeva, E. L. 6299
Gwal, H. B. 8710
Gwathmey, C. O. 355, 357, 1728
Gworgwor, N. A. 3416
Gyul'akhmedov, Kh. 1175
Gyulaliev, T. D. 3086, 6139
Gyuli-Zade, V. Z. 4081
Ha, Y. W. 100, 972, 4804, 4808, 6348
Haack, K. S. 1637
Haak, E. 1916, 5510
Haalstra, S. R. 790
Haas, J. H. 5617
Haas, R. 3059
Haase, N. U. 3658
Habib, A. K. M. A. 5372
Habib, R. 1926
Habib-ur-Rahman Khan 8488
Habte, M. 3005
Haccius, B. 3534
Hachinohe, M. 1126-1129
Hack, C. M. 2333
Hack-ten Broeke, M. J. D. 2948
Hackett, C. 1325
Hackney, J. W. 3472
Hadar, Y. 1189, 2609, 5378
Hadda, M. S. 3213
Haddad, G. 5431
Haderlie, L. C. 8568
Hadisaputro, S. 7888
Hadjichristodoulou, A. 1725-1726, 3092, 7259
Hadley, P. 8554
Hadlock, A. A. 3473
Haeder, H. E. 2829
Haerdter, R. 1608
Hafner, H. 3507
Haga, M. 3377
Hagège, D. 4438, 4441
Hagen, S. R. 4482
Hager, A. 8173
Hageseth, G. T. 7707, 8541
Haggar, J. P. 8150
Hagihara, M. 182
Hagio, T. 1327, 4964
Hagman, J. 5940
Hagood, E. S. 574
Hagstrom, G. R. 1912, 2383
Hahm, Y. I. 5183
Hahn, B. H. 5183
Hahn, H. 4943
Hahn, M. G. 1635
Hahn, S. K. 1162, 1815
Hahne, G. 458, 5263, 5267
Haigler, C. H. 2331
Hailu Beyene 7620
Hailu Gebre-Mariam 2024
Haimova, M. 8131
Hairiah, K. 1908, 2264, 4419
Hajabbasi, M. A. 6446
Hajare, D. B. 7448, 8736
Hajare, T. N. 7496
Hajek, B. F. 6711
Hajji, M. 7808
Hák, R. 5360
Håkansson, I. 3085
Hake, D. A. 7751
Hake, S. 1041
Hakvoort, H. 7068
Halderson, J. L. 6001, 8550
Halepyati, A. S. 4415, 5831, 7045, 7629, 7896
Halikatti, S. I. 5882
Halim, A. K. A. 4722
Hall, A. E. 355, 357-358, 548, 1728, 5103-5106, 6622, 7659
Hall, A. J. 6961
Hall, D. O. 2711
Hall, J. L. 2500, 5584, 5601, 8070
Hall, K. C. 413
Hall, M. H. 2101
Hall, M. R. 4496, 6417, 8594
Hall, S. M. 1784
Hallard, D. 4403
Hallgren, E. 1859, 4680
Halm, A. T. 2599
Halpin, C. 491
Halseth, D. E. 5968
Halstead, E. H. 2180, 6518
Halvankar, G. B. 2756, 4228
Halvorson, A. D. 3144
Ham, J. M. 8354
Hamada, E. A. M. 4206
Hamada, S. 1731
Hamaguchi, H. 5778
Hamamura, K. 866
Hamana, K. 1059, 4410, 4412, 5915
Hamann, W. 5347
Hamberg, M. 334, 5067
Hamblin, J. 1396, 5897
Hamdi, A. 2888
Hamdy, A. 6027
Hameed, S. M. S. 8228
Hamel, C. 2192
Hamid, A. 1081, 2098, 2152, 5848
Hamid Mahmood 4626
Hamill, A. 6244
Hamilton, N. A. 6579
Hamilton, S. D. 2072, 3609
Hamilton, W. D. 6579
Hamilton-Kemp, T. R. 2185
Hammad, S. A. 5823
Hammer, G. 6131
Hammer, G. L. 253, 2510, 2744, 4263, 5786, 6580, 7460-7461, 7463-7466, 7815-7816
Hammer, R. D. 5552
Hammerschmidt, R. 5182, 5840
Hammes, P. S. 1160, 1806, 4879
Hammond, D. F. 5968
Hammond, J. J. 1838
Hammond, L. C. 5617
Hammond, M. W. 2448
Hamoud, M. A. 4206, 7874
Hampton, J. G. 3519, 6778, 6830
Hampton, R. E. 432
Hamza, M. 3606-3607
Han, B. W. 7002
Han, C. S. 6089
Han, E. D. 7844
Han, H. B. 8217
Han, H. C. 7848
Han, J. K. 3007
Han, K. J. 2102
Han, Q. M. 2956
Han, S. H. 2849
Han, Y. 2437
Han, Y. Z. 5452
Hanada, K. 5656
Hanada, T. 5020
Hancock, M. 6867
Hancock, N. H. 3033
Handelmaatschappij Van Rijn BV 8563
Handford, K. 4728
Handley, L. L. 2398
Hane, D. C. 5181
Haneklaus, S. 5456
Hang, A. 7286
Hang, Y. H. 3491
Häni, H. 5353
Hanjokrowati 8721
Hanks, J. 4702
Hanks, R. J. 7289, 7631
Hanley, K. 492
Hanna, N. S. 2462
Hanna, W. W. 7456
Hansen, A. P. 7650
Hansen, F. 7967
Hansen, L. 7455
Hansen, M. 708
Hansen, R. W. 2892
Hansen, S. E. 1144

Hansen, V. J. 5287
Hanson, A. D. 2286
Hanson, B. K. 2539
Hanson, D. G. 1513
Hanson, P. J. 2188
Hanson, R. G. 7316, 8157
Hansson, A. C. 8001
Hanti, G. 6814
Hanwante, P. R. 3569
Hao, J. J. 3316
Hao, N. B. 6304
Hao, W. Y. 3578
Hao, Y. G. 359
Hapase, D. G. 3790, 5305
Haqqani, A. M. 8488
Haque, I. 4807
Haque, M. A. 8022
Haque, S. A. 5626
Harada, J. 838, 3395, 8209
Harada, S. 62
Harb, E. Z. 3466, 3550
Harbans Singh 878, 4380, 5870
Harbinson, J. 319
Harbir Singh 1207, 3129, 5270, 5350, 5404, 6532, 7447, 8215
Harborth, J. 4302
Harcharan Singh 5093
Hardie, D. G. 7928
Hardman, P. R. 1143, 1776
Hardy, J. G. 3797
Harel, E. 2207
Harer, P. N. 8327
Hari Singh 5031
Hariharan, M. 8599
Harikumar, P. K. 7925
Harima, K. 219
Harinarayana, G. 4188, 6620
Harjit Singh 1398
Harley, P. C. 3817
Harmati, I. 6050
Harmon, A. C. 3821
Harn, C. 4437, 5156
Haroon, A. R. M. 211
Haroun, S. A. 326
Harper, J. E. 1658, 7534
Harrell, D. M. 7215
Harris, D. 933, 2708, 2880
Harris, G. H. 7482
Harris, H. 1456
Harris, J. R. 7524
Harris, P. J. C. 1834
Harris, P. M. 1782, 1960
Harrison, H. P. 2437
Harrison, M. A. 3535, 5514, 6386, 6714
Harrison, W. J. 1818
Hart, J. J. 791, 1235, 2606-2607, 5578, 8167
Hart, S. E. 2914
Hartel, P. G. 2696
Hartley, M. J. 828
Hartley, R. A. 5764
Hartman, D. J. 1482
Hartmann, H. 5943
Hartmond, U. 8380
Hartnagel, S. 7157
Hartung, W. 7281, 7811, 8780
Hartzog, D. L. 4277, 6711
Haruyama, T. 3377
Harvey, M. L. 5346
Harvey, R. G. 1943
Harville, B. G. 979
Harwood, J. L. 2559, 7593
Hasabanis, A. B. 1271
Hasani, K. H. 4627
Haschke, H. P. 3249
Hasegawa, K. 215, 3167
Hasegawa, M. 5633, 6493, 6518
Hasegawa, P. M. 6099, 7869
Hasegawa, T. 1126-1127
Haselkorn, R. 7181
Hashem, A. 692
Hashemi-Dezfouli, A. 60, 814
Hashifah, M. A. 2684
Hashimoto, T. 5803
Hashizume, K. 5008
Hasimoto, M. 3613
Haslemore, R. M. 4007
Hassain, S. G. 1914
Hassan, A. A. 300, 2078
Hassan, G. 184, 845
Hassan, M. A. 8229
Hassan, M. E. 300
Hassan, Z. A. 846
Hassanein, E. E. 8428
Hassanein, H. G. 2796
Hassanien, A. M. 5063
Hassanin, M. A. 2908, 2910, 2913
Hasselbach, G. 4195
Hasselt, P. R. van 8470
Hassib, M. 8552
Hasted, A. M. 8838
Hatanaka, A. 4244
Hatch, M. D. 2619, 3061
Hatem, C. L. 5051
Hatfield, J. L. 8623
Hatkar, H. P. 7559
Hattori, K. 2871, 4362
Hattori, T. 5243
Hatwar, K. G. 6483, 6515
Hatzios, K. K. 2604, 8330
Haugen, L. M. 1083
Haunold, E. 2902
Hause, B. 4576, 5531
Hause, G. 4576
Häuser, C. 6172, 8675
Hauska, G. 4309
Hautea, D. M. 351
Havaldar, Y. N. 5122
Havaux, M. 3526, 5045, 5998
Havazvidi, E. K. 1991
Havelange, A. 6986
Haverkort, A. J. 1145, 1791, 2299, 5994, 8571
Haverkort, B. 1346
Havlin, J. L. 3144
Hawaii, Hawaiian Sugar Technologists 589-590
Hawes, C. R. 6176, 6190, 6209
Haworth, P. 327
Hay, G. T. 6676
Hay, R. L. 3135
Hayakawa, H. 3613
Hayakawa, T. 891, 4925, 5653
Hayamichi, Y. 6102, 7886
Hayasaka, H. 2687
Hayasaka, M. 5925
Hayasaka, T. 2691
Hayashi, K. 1731, 5243
Hayashi, M. 6021, 7039
Hayashi, T. 1126-1129
Hayashi, Y. 6988
Hayashida, M. 5924
Hayden, D. B. 532
Hayes, R. E. 6750
Hayhoe, H. N. 3264
Haynes, F. L. 5968
Haynes, K. G. 5968
Haynes, R. J. 5329
Hayward, C. 314
Hayward, C. F. 398, 5151
Hazarika, U. K. 3815
Hazra, C. R. 3447, 5707
Hazra, P. 5076
He, C. G. 2625
He, C. J. 1520, 5224
He, C. R. 5598
He, D. D. 6316
He, D. Y. 5639
He, G. Q. 5748
He, J. S. 6552
He, J. X. 4770
He, K. J. 359
He, R. Y. 3316
He, S. Y. 4120
He, T. 3750
He, Y. K. 2160, 6533
Heaney, D. J. 5506
Heath, M. C. 1051, 3879, 5147, 5379
Heathcote, D. G. 8099
Heatherly, L. G. 276, 1611, 3804
Heavner, D. L. 7536
Hebbar, M. 18
Hebblethwaite, P. D. 2968, 6736
Hebel, A. 3438-3439
Heber, U. 3536, 4835, 7011-7012
Heberle-Bors, E. 1886, 2355
Hébert, Y. 6459
Hecht, R. 2915
Hecht-Buchholz, C. 3204
Heck, W. W. 7551
Hector, D. J. 7182
Hedden, P. 3255, 8133, 8180
Hedge, D. M. 21
Hedge, R. K. 5685
Hedrich, R. 1054, 3546, 4326
Heenan, D. P. 6713
Heeraman, D. A. 4034
Heerden, H. G. van 2959
Heermann, D. F. 4490-4492
Hefner, S. G. 2136, 4112
Hegardt, F. G. 4313
Hegarningsih, N. 3358
Hegazy, M. H. 7212
Hegde, D. M. 7056
Hegde, M. 6012
Hegde, M. V. 6872
Hegde, R. K. 1188
Hegde, U. 8409
Hegney, M. A. 1801
Heichel, G. H. 560, 2101
Heide, J. van der 1908, 2085, 2264, 2310
Heijden, G. W. A. M. van der 4352
Heijdt, L. M. van der 6665
Heijnen, J. J. 1257
Heikkinen, M. K. 1856
Heilman, J. L. 4152-4153, 8272
Heimhuber, B. 8786
Hein, G. L. 4434
Hein, W. 5709-5710
Heineke, D. 8634
Heinen, J. L. 4604
Heiniger, R. W. 8291-8292
Heinstein, P. F. 2186, 5006, 6664
Heintze, A. 7276
Heinzmann, J. 3685
Heitholt, J. J. 6025, 7750, 8602
Hejmánková, H. 4260
Hejnowicz, Z. 7930
Helal, H. M. 3200, 3287, 3301, 3306, 3565, 4837, 5332
Helberg, R. R. 756
Helder, H. 5990
Heldi, A. 1379
Heldt, H. W. 110, 536, 4302, 8634
Heller, R. 3062
Hellgren, L. 290, 1700, 5058
Hellgren, O. 5817
Hellström, A. 1251
Helm, C. G. 3484
Helm, J. H. 4004, 4815
Helms, R. S. 3349
Helyar, K. R. 7919
Helyes, L. 5833
Hemachandra, P. V. 2657
Hemamda, H. 5424
Hemingway, R. W. 8820
Hendershot, K. L. 71
Henderson, D. M. 7295
Henderson, S. A. 2170, 3453
Hendrey, G. R. 7082
Hendry, G. A. F. 8772
Henegariu, O. 1003
Henneberry, T. J. 3705
Hennecke, H. 3505
Hennessey, T. L. 3559, 4336, 8445
Henning, R. C. 6001
Henninger, M. R. 417, 5968
Henriksen, G. H. 2552
Henriques, F. S. 224, 1565-1566
Henry, A. 8515
Henry, E. 5194
Henry, L. T. 6661
Henry, R. L. 1713
Henry, S. 4526
Hensel, D. R. 7716
Hentherly, L. G. 272
Henzell, R. G. 6581, 7100
Heo, C. H. 274
Hepburn, C. 846
Hera, C. 7915
Herat, L. G. 5075
Herbener, N. 2803
Herbert, S. J. 814, 4643
Herczeg, A. L. 896
Hergenröder, A. 3065
Hergert, G. W. 139
Herlihy, M. 2912
Herman, E. M. 1888, 5599
Herman, M. 2130, 2474
Hermans, B. 4439
Hermes, C. 6665
Hermoso, R. 1039
Hernández, D. 7437
Hernández, G. 2241
Hernández, J. A. 5061
Hernandez, J. E. 867
Hernandez, J. G. 4456
Hernandez, L. D. 5911
Hernández, T. 2543
Hernandez-Bautista, B. E. 8192
Hernández-Lucas, C. 8066
Hernández Tapia, A. 8314
Hernanz, J. L. 8114
Herren, T. 45
Herrera, J. 1766
Herrera, J. E. 8543-8545, 8592-8593
Herridge, D. F. 6497, 6800, 7503
Herrmann, G. 5531
Herrmann, K. 4425, 8786
Hertel, R. 4082
Herter, U. 3283
Hertwig, B. 4801, 5337
Hervan, E. M. 5777
Herz, P. 336
Hesketh, J. D. 2122, 5752
Heslop-Harrison, J. 2496
Heslop-Harrison, Y. 2496
Hess, D. 1364, 8085
Hess, J. L. 2213
Hess, J. R. 6315
Hesterman, O. B. 4217, 7482
Het Ram 2705
Hetal, H. M. 4748
Hetherington, A. M. 2389
Hetherington, P. R. 8175
Hettema Zonen Kweekbedrijf 8562, 8564
Hettiarachchy, N. S. 1848
Hetz, E. 7908
Heu, H. 223
Heu, M. H. 237
Heuer, B. 396
Heuvel, R. M. vanden 1496
Hewson, R. T. 1301
Hewstone M., C. 8110
Heyland, K. U. 3722, 7120, 7488
Heyman, Y. 7954
Heymann, W. 2445
Heyn, J. 7136
Hickman, J. S. 2162
Hicks, D. R. 3459, 4209, 4211, 4222, 7516
Hidaka, M. 3689
Hidayatullah 1876
Hide, G. A. 1784
Hidema, J. 5444
Hieke, M. 3768
Hien, V. 2600
Higashi, T. 6533
Higashide, E. 5245
Higgins, E. S. 2945
Higgins, T. J. V. 7176
Higley, L. G. 2772
Higuchi, H. 4103
Higuchi, K. 5658
Hiivola, S. L. 2529
Hikam, S. 128
Hilaire, A. 698
Hilal, M. 5421
Hilal, M. H. 20, 316, 370, 3469
Hildbrand, M. 3940
Hildebrand, D. F. 2185
Hildenbrand, D. F. 128
Hilgendorf, F. 5612
Hilger, T. H. 7392
Hill, G. D. 8819
Hill, G. J. E. 8039
Hill, J. E. 4130, 8256, 8278
Hill, P. R. 7456
Hill, R. D. 2570

Hill, W. A. 3691, 4495
Hillel, D. 6329
Hiller, K. 6958
HilleRisLambers, D. 872
Hillmer, S. 4825, 6393
Hills, M. J. 472, 6967, 7067
Hilmani, N. C. 419
Hinata, K. 2687
Hince, B. 8825
Hincha, D. K. 2563
Hind, G. 1038
Hindle, T. L. 3858
Hinds, M. J. 5039
Hines, M. E. 2899
Hinkley, R. B. 6376
Hintz, R. W. 977, 4222
Hinz, G. 5052
Hinz, J. 669, 5442
Hinz, U. 5292
Hipp, B. W. 7992
Hipps, L. 2643
Hirai, G. 918
Hirai, Y. 898
Hirano, H. 4420
Hirano, T. 918
Hiraoka, H. 8216
Hiraoka, K. 1572
Hirasawa, T. 894-895
Hiray, A. G. 4556
Hirel, B. 7349
Hiremath, B. R. 451, 6057, 7806
Hiremath, C. G. 5395
Hiremath, P. C. 1188, 3485, 5685
Hiremath, S. M. 4, 1750, 4272, 4386, 5395, 6227, 6801, 7502, 7656, 8641, 8646
Hiroce, R. 3468
Hirosawa, T. 1576, 3398
Hirose, K. 7003
Hirose, T. 1030, 6102
Hirpara, D. S. 8285
Hirth, J. R. 1977
Hisajima, S. 5035
Hite, D. R. C. 5826
Hittalmani, S. 6534
Hitz, W. D. 2915, 3490
Hlava, B. 377
Hmyene, A. 154
Hnilica, P. 6313
Ho, K. M. 2549
Ho, S. C. 5017
Ho, T. H. D. 8126
Ho, Y. L. 262
Hobbs, D. C. 792
Hobbs, M. C. 5290
Hocart, C. H. 8781
Hocking, P. J. 6938
Hodge, S. K. 5343
Hodges, H. F. 4252, 7771
Hodges, T. 804, 1158, 5393
Hodges, T. K. 4922
Hodgson, C. J. 3582
Hodgson, D. R. 721-722
Hodora, J. 6634
Hoebeke, J. 1884
Hoeft, R. G. 1496, 1507
Hoekman, D. H. 7950-7951
Hoelzle, I. 2895
Hoferichter, P. 4302
Hoffer, B. L. 2473
Hoffman-Kąkol, I. 5971
Hoffmann, G. 1227, 8749
Hoffmann, G. M. 3170
Hoffmann, P. 3985-3986
Hoffmann-Benning, S. 901
Hofhansel, A. 1773, 5170
Hofírek, P. 1612
Höfler, M. 3536
Höflich, G. 7084
Hofman, G. 2278, 2381, 3646
Hofmann, B. 3656
Hofmann, P. 6238, 6308
Höfner, W. 5573
Hofsteenge, J. 489
Hogetsu, T. 5192
Hogge, M. C. 6850
Höglund, A. S. 4587
Hoh, B. 5818
Hohl, M. 806, 1523
Høj, P. B. 1482
Holaday, A. S. 2049, 4604
Holden, S. T. 8149
Holford, I. C. R. 6597
Holguin, G. 3977
Holkar, S. 4164
Holland, J. F. 6597, 6800
Holland, M. A. 2780
Holliday, J. M. 6867
Hollinger, S. E. 1535, 7362, 7364
Hollington, P. A. 5471
Hollins, T. W. 6633
Holloway, P. J. 6280
Holloway, R. J. 3336
Holm, D. F. 2938
Holm, D. G. 5181
Holman, E. M. 6897
Holmes, Z. A. 5997
Holstein, S. E. H. 5818
Holsters, M. 8519
Holt, D. C. 8075
Hołubowska, M. 8560
Holwerda, B. C. 113
Holwerda, H. T. 4494, 7728
Hölzer, R. 45
Holzhausen, L. C. 1160
Homble, F. 5577
Hon, W. C. 1454
Hondel, H. S. 3909
Honermeier, B. 57, 7796
Hong, B. 8126
Hong, E. H. 1614, 1730, 5727, 6650, 8328
Hong, F. S. 672
Hong, J. K. 6476
Hong, K. P. 840
Hong, S. B. 8212
Hong, Z. 1639
Hong, Z. L. 3942
Honma, M. 5079
Hons, F. M. 1582
Hood, C. E. 3460
Hooda, I. S. 3151, 5697
Hooda, P. S. 1808
Hooda, R. S. 3599
Hooder, I. S. 5416
Hoogenraad, N. J. 1482
Hoogmoed, W. B. 2719
Hook, J. E. 1501, 3271
Hoopen, H. J. G. ten 1257
Hopkins, B. G. 6158
Hopmans, P. 2072, 3609
Hoppe, P. 7276
Hoppenstedt, A. 2608
Hoque, M. M. 2003
Horabik, J. 3954
Horak, A. 5050
Horak, O. 5354
Horgan, G. W. 3099
Horgan, R. 5837
Horie, T. 927, 2695
Horikoshi, M. 5661
Horino, T. 1327
Horisue, N. 6533
Horlings, G. P. 2750
Horn, M. A. 5006
Hornburg, V. 3198
Hornby, D. 6633
Horne, D. J. 764
Horng, H. P. 8164
Hornung, G. 8750
Horsley, R. D. 2569
Horst, W. J. 152, 2875, 3065, 3303, 8169
Horton, R. F. 4343
Horvath, B. 8527
Horváth, E. 8677
Hosaka, H. 1512
Hosfield, G. L. 6748-6749
Hoshi, T. 3368
Hoshikawa, K. 4106
Hoshino, T. 3368, 7260
Hoshiyar Singh 6847
Hosmani, M. H. 1750
Hosmani, M. M. 4, 1750, 2165, 4956, 5395, 6227, 7502, 7571, 8641, 8646
Hosmani, S. A. 4386
Hosoi, N. 3390
Hoson, T. 5865
Hossain, M. 5372
Hossain, M. A. 5503
Hossain, M. J. 5948
Hossner, L. R. 2724
Hotchkiss, T. 7872
Hou, C. R. 3378
Hou, J. P. 2138
Hou, K. W. 359
Hou, Q. S. 8036
Hou, S. M. 4919
Houérou, H. N. le 4687
Hough, M. N. 3118
Hourmant, A. 4471
Housley, T. L. 2491, 8060
Houten, H. van 1966
Houtz, R. L. 3017
Hovermale, C. H. 2181
Hoverstad, J. R. 3459
Hoverstad, T. R. 1587, 4166, 4209, 4211
Howard, D. D. 7526
Howe, G. N. 7137
Howeler, R. H. 4693
Hoy, J. W. 4631
Hoyakawa, T. 6549
Hrazdina, G. 1922, 3819
Hrubý, J. 6358
Hrustić, M. 7506
Hruszka, M. 2838-2839
Hsia, I. S. 928
Hsiang, W. M. 5610
Hsiao, T. C. 2373, 7354, 8294
Hsieh, C. F. 5615, 5669
Hsieh, M. H. 995
Hsieh, R. H. 7861
Hsieh, S. C. 7090
Hsieh, Y. D. 4098
Hsu, A. F. 6451
Hsu, I. 6875
Hsu, K. N. 5615
Hsu, L. H. 5095
Hu, D. F. 3957
Hu, H. J. 6511
Hu, H. L. 3125
Hu, H. Y. 855, 6511
Hu, L. C. 5759
Hu, M. X. 5768
Hu, R. H. 7336
Hu, R. K. 6533
Hu, S. N. 2013
Hu, X. H. 262
Hua, X. Y. 7454
Huang, A. H. C. 811, 1328, 3320, 4670, 6989
Huang, C. N. 4833, 6402
Huang, C. X. 8188
Huang, C. Y. 4735, 6624
Huang, D. M. 5633
Huang, D. N. 6555
Huang, F. 6955
Huang, F. N. 4133
Huang, G. Q. 1082
Huang, H. 4763, 5802, 6312
Huang, H. C. 6945
Huang, H. L. 6325
Huang, H. W. 2262
Huang, J. C. 4770
Huang, J. L. 6118
Huang, J. W. 653, 659, 1416, 6292, 6323, 8053
Huang, J. Y. 2331
Huang, N. G. 2160
Huang, P. M. 746
Huang, R. D. 1469
Huang, S. R. 5761
Huang, S. Z. 8390
Huang, W. N. 4378
Huang, W. Z. 1116
Huang, X. X. 2956
Huang, Y. 2154
Huang, Y. F. 1568
Huang, Y. J. 3443, 6408
Huang, Y. M. 1525, 6533
Huang, Y. Q. 8262
Huang, Z. Z. 5515
Huarte, M. A. 2937
Huault, C. 7292, 8536
Hubbard, K. G. 5608-5609
Hubbs, A. 4312
Hubbs, A. E. 5799
Huber, D. M. 5558
Huber, J. L. 800, 3492
Huber, S. C. 800, 1315, 3492
Hubík, K. 6310-6311
Hucklesby, D. P. 5801
Hucl, P. 2465-2466, 2468
Hudcová, M. 2906
Hudge, V. S. 1841
Hudson, D. 1006
Hudson, G. S. 3769
Hudson, R. D. 5730
Huet, J. C. 1795, 5280
Huete, A. R. 2965
Huett, D. O. 3664, 5188
Huf, S. 6610
Huffaker, R. C. 740
Huffman, J. R. 7317
Huggins, D. R. 4293, 8009
Hughes, D. F. 2061
Hughes, G. R. 2465-2466, 2468
Hughes, J. C. 773, 7149
Hughes, K. A. 764
Huh, S. S. 4250
Hühn, M. 2989
Huiskamp, T. 5324
Hukmani, P. 7283
Hulamani, N. C. 6010
Hulgur, B. S. 6801
Hull, G. 4200
Hull, S. A. 3460
Hulme, J. S. 2945
Hultstrand, J. F. 2566, 6037
Huluka, G. 1600
Human, J. J. 771, 777, 5231
Hume, D. J. 1662, 5018, 5774
Humeid, M. A. 3953
Hummudi, K. B. 33
Humphreys, E. 2663
Hundal, S. S. 1656, 5540
Hundekar, S. T. 5395
Hundeshagen, B. 4093
Huner, N. P. A. 532, 650, 2068, 3194, 3970, 3997, 6350
Huner, P. A. N. 6752
Hung, C. C. 1879
Hung, H. H. 8237
Hung, P. E. 3337
Hunje, R. V. 354
Hunsaker, D. J. 5406
Hunshal, C. S. 451, 6054, 6057, 6794, 7806
Hunt, G. L. T. 587
Hunt, L. A. 8305
Hunt, P. G. 1657, 2924
Hunt, S. 2220, 3499, 4239
Hunte, C. 2225
Hunter, H. M. 6588
Huo, Y. Q. 1967
Hurkman, W. J. 7194
Hurn, P. M. 4879
Hurng, W. P. 7868
Hurren, R. G. 6897
Hurry, V. M. 650, 3194, 3970, 8105
Hurst, H. R. 2376
Hurtado, J. 3812
Hurtalová, T. 667
Husain, S. M. 5628, 5657, 6639
Hush, J. M. 330, 1685
Husin, A. 6506
Huskisson, N. S. 168
Hussain, A. 905, 7696
Hussain, F. 8684
Hussain, M. S. 7404
Hussain, N. 8274
Hussain, R. 6520
Hussain, S. A. 3840
Hussain, T. 2135, 3406
Hussaini, K. H. 4626
Hussaini, S. H. 8632
Hussani, K. H. 5313, 7884
Hussein, A. H. A. 8428
Hussein, M. M. 4722, 5073
Hussey, R. S. 5734
Hutchinson, C. F. 1948
Hutmacher, R. B. 2957-2958
Hutney, J. 3823
Hutnik, R. J. 1533
Huystee, R. B. van 313, 2817, 4286, 5030, 6707
Hwang, C. J. 228
Hwang, D. Y. 834, 8235

Hwang, J. J. 972, 6348
Hwang, Y. H. 5727, 6650
Hylton, C. M. 8416
Hymowitz, T. 990, 1643
Hyon, S. W. 4354
Iagăru, G. 510
Iancu, D. 38, 76
Iannetta, P. P. M. 373, 2191, 8510-8511
I'Anson, K. J. 4831
Ibragimov, A. C. 4851
Ibragimov, Sh. 3710
Ibrahim, A. E. S. 2242
Ibrahim, A. F. 2998
Ibrahim, M. 6814
Ibrahim, R. 4403
Ibrahim, R. K. 2260
Ibrahim, S. M. 4047
Ibrahim, Z. 7137
Ibuki, F. 6758
Ichihara, A. 5196
Ichikawa, Y. 3368
Ichinose, Y. 1681
Ichishima, E. 2678, 6870
Ida, K. 6997
Ide, Y. 3689
Idem, N. U. A. 6919
Idris, M. 2969, 6489, 7779
Ievinsh, G. 3455
Igamberdiev, A. I. 8767
Igamberdiev, A. U. 4923, 7340
Igarashi, S. 2691
Igaue, I. 4927-4928, 4936-4937, 6549, 7418, 7428
Igaue, K. 7927
Igbinnosa, I. 6783
Iglesias, R. 1058, 3669, 4487
Ignat'ev, L. A. 5465
Ignatova, L. K. 6716
Igue, T. 1903
Iijima, M. 176
Iio, T. 2652
Iiyama, K. 4789
Iizuka, H. 232
Iizuka, M. 7417
Ijardar, J. S. 2463, 3156
Ike, I. F. 1491
Ike, Z. 3368
Ikeda, T. 3463
Ikhlasova, Z. D. 530
Ikhsanov, S. K. 1577
Ilahi, I. 8684
Il'chenko, N. A. 614
Ilgen, B. 3074
Ilicki, R. D. 756
Iliev, L. 8732
Ilieva, V. 7936
Il'in, V. B. 1157
Illarionova, È. S. 2378
Ilnicki, R. D. 1298
Ilyas, M. 1527
Ilyas, S. 3554
Il'yasov, S. G. 80
Ilyukhina, M. K. 2476
Im, J. N. 915
Imai, H. 6132
Imai, K. 788
Imaseki, H. 4379
Imbe, T. 1557-1558, 2673
Imholte, A. A. 759, 3265
Imrie, B. C. 1722, 6771
Imsande, J. 1637, 4267
Imura, E. 5925
Inada, K. 969
Inagaki, M. N. 1428
Inam, A. 4002
Inamura, H. 7164
Inano, T. 918
Inasi, K. A. 6005
Inayatullah Khan 3789
Incarnato, D. 252
Incoll, L. D. 7270-7271
Inderjit 4375, 4584
India, Central Potato Research Institute 1352
India, Central Research Institute for Dryland Agriculture 1354
India, Central Tobacco Research Institute 6199-6200
India, Central Tuber Crops Research Institute 6201
India, Directorate of Rice Research 1355
India, Indian Agricultural Research Institute 6202
India, Indian Institute of Horticultural Research 2893
India, Sugar Technologists' Association of India 5376-5377
India, Sugarcane Breeding Institute 1897, 1899, 1902, 4624, 6122, 8726
Indira, P. 6008
Indonesia, Indonesian Sugar Research Institute 8811
Indonesia, Ministry of Agriculture 6646
Indulkar, B. S. 209, 8489
Informatore Agrario 2059, 2069, 2105, 7153-7156, 7160, 7263, 7267, 8026, 8092, 8109, 8120, 8163, 8759
Ingawale, H. Y. 2366
Ingemarsson, B. 322
Ingole, P. G. 7875
Ingram, K. T. 7435
Inoue, H. 885
Inoue, M. 200, 6533
Inoue, T. 7426
Inoue, Y. 7373
Inquello, V. 2346
Inshin, N. A. 5545, 7328
International Center for Agricultural Research in the Dry Areas 3107, 8816
International Cotton Advisory Committee 1956
International Crops Research Institute for the Semi-Arid Tropics 1353, 3510-3512
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International Fertilizer Industry Association 8752
International Institute of Tropical Agriculture 3106, 6218, 7975
International Potato Center 6204, 7981
Iohiki, H. 1660
Ionescu, N. 76
Ionescu, Ş. 134, 523
Ioniţă, V. 468
Ip, S. M. 2561
Ipsits, C. M. 4895
Iqbal, J. 8225
Iqbal, M. 1876
Iqbal, M. A. 7779
Iqbal, M. M. 3150
Iqbal, S. 1993
Ireland, F. A. 4821
Iriki, N. 3983
Irione, V. 7335
Irish Republic, Teagasc 8812
Iritani, W. M. 5181
Irizarry, H. 1163
Irungu, J. W. 8358
Irvine, R. F. 1689
Irving, N. S. 8613
Irwin, J. A. G. 4791
Isabekov, R. 1816
Isfan, D. 3274
Ishchenko, G. S. 7942
Ishige, F. 4379
Ishiguro, Y. 7492
Ishihara, K. 887, 894-895, 5659
Ishihara, M. 2658
Ishihata, K. 6021
Ishii, K. 1660
Ishii, R. 6544
Ishii, S. 4408
Ishii, T. 4931
Ishikawa, H. 1519
Ishikawa, T. 1005
Ishimoto, M. 4227
Ishinaga, M. 994, 4996
Ishwar Singh 2720, 7475
Iskander, G. M. 2973
Isla, M. I. 5985
Islam, A. S. 4543
Islam, K. R. 7387
Islam, M. M. 206
Islam, M. N. 5126
Islam, M. S. 632, 914, 6489, 8022
Islam, N. 1244
Isleib, T. G. 4217, 8387
Ismail, A. A. 4128
Ismail, A. E. 8041
Ismail, A. S. 107
Ismail, I. 5310, 8727
Ismail, M. S. 3702
Ismail, S. 75
Ismaĭlov, T. 1179
Ismunadji, M. 1307
Ismunandar, S. 1908
Isoda, A. 1005
Israel, D. W. 1632, 1657, 5739
Israel, Institutes for Applied Research, Ben-Gurion University of the Negev 1953
Issolah, A. 5832
Istasse, L. 8162
Istrati, E. 7143-7145, 7512
Itabari, J. K. 7355
Itier, B. 1009
Ito, A. 1640
Ito, J. 531
Ito, M. 785, 904, 2765
Ito, M. F. 7528
Ito, S. 5866, 5914
Ito, T. 904
Itoh, A. 1660
Itoh, Y. 5842
Ittersum, M. K. van 3667, 5945-5946
Ittyaverah, P. J. 205
Ivanchenko, M. 8190
Ivanishchev, V. V. 8658
Ivanoski, M. 2457-2458
Ivanov, A. A. 6844
Ivanov, A. G. 3253
Ivanov, B. F. 1531, 4923
Ivanov, D. I. 8264
Ivanov, I. I. 3527
Ivanov, N. S. 6000
Ivanov, V. B. 5593, 6472, 7357
Ivanova, D. I. 2155
Ivanova, È. A. 7183
Ivanova, I. V. 5603
Ivanova, L. M. 3666
Ivanova, S. F. 4816
Ivanova, V. I. 1302
Ivany, J. A. 4231
Ivashchenko, A. T. 52, 3454
Iversen, T. H. 1864
Iversen, T. X. 4577
Iverson, A. 726
Ivlev, A. A. 8766
Ivoĭlov, A. V. 3450, 7222
Ivshin, E. I. 4469
Iwami, K. 6758
Iwanejko, M. 1999
Iwano, M. 6533
Iwao, T. 7356
Iwuafor, E. N. D. 1502
Iwuoha, C. I. 2709
Iyer, V. 3717
Izaguirre-Mayoral, M. L. 4376
Izaurralde, R. C. 3042
Izmaĭlov, S. F. 8344
Izmailov, S. F. 374, 3493, 8352, 8411
Izotov, V. I. 6226
Izraeva, G. A. 10
Izui, K. 7350
Izumi, H. 5302
Izuno, F. T. 6121
Izuta, T. 1030
Izzo, R. 1522, 8663
Jaafar, M. N. 6060
Jaaska, V. 1487
Jabbar, M. A. 5313, 7304
Jabeen, F. 8632
Jack, S. B. 6053
Jackai, L. E. N. 3582
Jackisch, W. 5362
Jackowski, G. 115
Jackson, G. D. 3924
Jackson, L. F. 3902, 7128
Jackson, M. B. 413, 5477
Jackson, R. B., IV 6197
Jackson, R. D. 2965
Jackson, W. A. 4861, 8168
Jacobs, J. M. 5526
Jacobs, N. J. 5526
Jacobsen, E. 5216, 6015
Jacobsen, J. S. 77, 4732
Jacobsen, J. V. 8139
Jacobsen, N. 751
Jacobson, T. A. 433
Jacq, B. 1136, 7703
Jácquemoud, S. 3096
Jadhao, P. N. 2804, 7054, 8371
Jadhao, S. L. 5400
Jadhav, A. S. 2883, 4061, 4065, 4184, 4188, 6620, 6804, 7448, 7789, 8486, 8736
Jadhav, B. B. 3584, 4950, 5655
Jadhav, S. R. 6948
Jadhav, Y. R. 4040
Jaffe, L. F. 4858
Jag Shoran 2023
Jagadeesh, K. S. 37
Jagadish, G. V. 3338
Jagadish Singh 7041
Jagannatha, V. 6599
Jagdeep Singh 1741
Jagdish Singh 7783
Jagendorf, A. T. 5811
Jäger, H. J. 5087, 7648
Jager, J. A. de 1806
Jager, J. M. de 2305
Jäger, K. 3820
Jaggard, K. W. 2916, 5379
Jaggi, R. C. 6788
Jäggi, W. 1707, 2016
Jagginavar, S. B. 1727
Jagmohan Singh 8271
Jagnow, G. 2745
Jagpal Singh 5949
Jagtap, B. K. 4061
Jagtap, J. G. 4164
Jagtap, S. S. 2119
Jahn-Deesbach, W. 3059
Jähne, A. 6449
Jahns, G. 7110
Jahufer, M. Z. Z. 3266
Jain, A. K. 987
Jain, B. L. 6795
Jain, D. C. 5083
Jain, G. L. 1913, 6927, 7788
Jain, K. C. 5846
Jain, M. P. 3895
Jain, P. M. 7839
Jain, R. 8729
Jain, R. C. 2697, 3801
Jain, R. K. 3701
Jain, S. D. 1410
Jain, V. K. 4553, 5846
Jaing, J. T. 7596
Jaipurkar, M. A. 5251
Jaiwal, P. K. 4363
Jakobsen, S. T. 5523
Jakobsson, C. 6364
Jakovljević, M. 91
Jalali, B. L. 1099
Jalil, A. 3055, 5515, 6628
Jalota, S. K. 3905
Jama, B. 515
Jamadagni, B. M. 4367
Jamaica, Sugar Industry Research Institute 3870-3871
Jambunathan, R. 2810
Jame, Y. W. 4772
James, C. L. 8347
James, C. S. 88, 2683
James, E. K. 2191, 6676, 8510-8511
James, F. 799
James, L. G. 2584
James, S. R. 5181
Jamieson, P. D. 3682, 4007, 7188
Jamil, M. 184
Jammel, M. 33
Jamriška, P. 2535, 8144
Jamro, G. H. 1380
Jan, F. 8250
Jan, M. 5575
Jan, M. T. 8117
Jana, A. K. 7800
Jana, M. K. 2656

Jana, P. K. 4493, 6787, 7151
Janagoudar, B. S. 6894
Janardan Singh 3120
Janardhan, K. 5142
Janardhan, K. V. 6894
Janardhanan, K. 8524
Janas, K. M. 1262
Jang, G. C. 7854
Jang, Y. S. 5274
Jangawad, L. S. 3729
Janke, R. R. 575
Janković, M. 3158
Janoria, M. P. 3365
Janota dos Santos, M. 252
Janoudi, A. K. 1254
Jansen, M. A. K. 488
Janssen, L. L. F. 3098
Janzen, H. H. 40
Japan, Hokuriku National Agricultural Experiment Station 220, 7409
Jaquiéry, R. 636, 711, 2025, 3155, 3220, 4741, 6273-6274, 6354-6355
Jaramillo, J. E. 1786
Jaros, M. 7220
Jarstfer, A. G. 7555
Järvenpää, M. 2438
Jarvis, P. G. 346-347, 3552
Jarvis, S. C. 588, 8414
Jarwal, S. D. 5270, 5404
Jasiewicz, C. 2045, 2053, 2339
Jaszczołt, E. 2276, 2279-2280, 2282-2284, 2292
Jat, P. C. 3437
Jatimliansky, J. R. 3311
Jauert, R. 26
Jauneau, A. 4539, 7775-7776
Javor, P. 2460
Jaw, C. G. 5651
Jawahar, D. 211
Jaworska, K. 1982-1983
Jay, S. C. 4573
Jayabal, V. 503, 2362-2363, 2365, 3785-3786, 5297, 6106-6107, 6119, 7016, 7018, 8709
Jayachandran, R. 255
Jayapaul, P. 7773
Jayaraman, S. 4909
Jayasekara, K. S. 3428
Jayawardena, S. D. G. 2657
Jayawardene, S. D. G. 7429
Jeannin, I. 4871
Jech, J. 1047, 8401
Jedel, P. E. 4815, 6352
Jędruszczak, M. 978, 2293
Jee, R. C. 6517
Jefferies, R. A. 2303
Jefferson, P. G. 4772
Jeffery, L. S. 639
Jeffords, M. R. 3484
Jelić, G. 2635
Jelić, M. 28
Jeličić, Z. 140
Jena, S. N. 3369
Jenkins, G. I. 5157
Jenkyn, J. F. 1457
Jennings, I. R. 5482
Jennings, R. C. 6442
Jenny, T. 8621
Jensen, A. 2082
Jensen, C. R. 1480, 4840
Jensen, E. 807, 8181
Jensen, E. S. 8023
Jensen, H. E. 4688
Jensen, K. H. 6069
Jensen, P. J. 1532
Jensen, R. A. 3819, 5987
Jensen, S. E. 4688
Jeon, J. H. 6931
Jeong, B. R. 2491, 6297
Jeong, J. H. 5246
Jeong, Y. G. 4124
Jerez, E. 3636, 3677, 5995
Jeromin, A. 4326
Jeschke, W. D. 6048, 6922
Jesinger, R. 3765
Ješko, T. 3293
Jessop, R. S. 626, 1456
Jesudas, L. L. 6623
Jeswani, M. D. 5949
Jeswiet, J. 6124
Jeuffroy, M. H. 325
Jeuring, G. 8429
Jewess, P. 7595
Jeyabal, A. 2749, 8233
Jeyaraman, S. 4224
Jha, G. N. 1556
Jha, K. C. 1894
Jha, K. P. 6482
Jha, S. 6554
Ji, L. 2184
Ji, S. U. 7865
Jia, B. S. 8037
Jia, Z. W. 6304
Jian, L. C. 6324
Jian, Z. Y. 4763
Jiang, A. L. 359, 3190
Jiang, C. J. 3025
Jiang, C. Z. 4240
Jiang, G. Z. 6029
Jiang, H. F. 6671
Jiang, H. Y. 2447
Jiang, J. Y. 1552
Jiang, L. X. 3747
Jiang, R. Z. 6282
Jiang, X. L. 3708
Jiang, Y. Q. 5749
Jiang, Y. X. 359
Jiang, Z. H. 3312
Jiang, Z. K. 831
Jiang, Z. N. 6533
Jiao, D. M. 5654
Jiao, J. A. 156
Jiao, X. Z. 5029
Jibhakate, B. M. 5251
Jilani, G. 1176, 2135
Jílek, J. 7254
Jiménez, E. 7890
Jiménez, H. R. 4625
Jiménez, J. A. 1069
Jimenez-Estrada, M. 8192
Jin, H. 2507
Jin, H. R. 8037
Jin, J. H. 1992
Jin, J. Y. 959
Jin, Q. Y. 6478
Jin, W. J. 2250
Jin, W. P. 5323
Jin, Y. L. 4916
Jin, Y. Q. 2698
Jin, Z. H. 3208
Jin, Z. Q. 2154
Jing, G. F. 2138
Jing, H. C. 2341
Jing, J. H. 6673
Jing, J. X. 6282
Jinga, I. 6147
Jinn, T. L. 995
Jirsák, A. 1755
Jităreanu, G. 7904
Jitneva, N. N. 3292
Jo, C. J. 6089
Jo, M. H. 2102
Jobet F., C. 8110
Jocković, D. 7506
Jodari, F. 4121, 4125, 8238
Jodhav, N. J. 3908
Joginder Singh 3523
Jogloy, S. 6701
Johannes, E. 394, 4435
Johansen, C. 2255, 5879, 7689
Johanson, K. J. 4783
Johansson, I. 42
Johansson, I. M. 7605
Johansson, M. 3630
John, P. 3112
John, P. C. 7073
John, P. C. L. 4314, 5288
Johnkutty, I. 202, 8229
Johnson, A. D. 2892
Johnson, B. S. 1158
Johnson, D. G. 476
Johnson, G. A. 5771
Johnson, G. I. 5569
Johnson, G. L. 4168
Johnson, H. B. 2064, 4779, 6346
Johnson, I. R. 600
Johnson, J. C. 1321
Johnson, J. F. 820
Johnson, J. W. 680, 2509, 4806, 6245, 6321, 7307
Johnson, K. D. 5836
Johnson, K. E. 7377
Johnson, P. A. 3647
Johnson, S. 8699
Johnson, S. L. 1158
Johnson, W. C. 1671, 4968, 8161, 8303, 8606
Johnson-Glebe, C. 8099
Johnsson, A. 8099
Johnston, A. M. 4729
Johnston, H. W. 2469, 4014
Johnston, M. A. 773
Johnstone, K. A. 6778, 6830
Johri, A. K. 43
Jokela, W. E. 3280
Jokeš, M. 8064
Jolánkai, M. 2475
Jolivet, P. 48
Jolivet, Y. 992
Jolley, V. D. 2061, 6158
Jolliff, G. D. 4590, 6081-6082, 6084, 6990, 8690
Jonas, O. A. 1432
Jones, A. M. 5599
Jones, B. L. 4826
Jones, C. 2968
Jones, C. A. 459, 577, 6912
Jones, D. J. 4212
Jones, E. D. 5938
Jones, G. P. 3004
Jones, G. P. D. 626
Jones, H. G. 1929, 3048
Jones, H. K. 1343
Jones, J. 234, 906, 5154
Jones, J. B., Jr. 1366
Jones, J. L. 6993-6994
Jones, J. W. 5752, 6430
Jones, K. A. 8613
Jones, L. 1458
Jones, M. J. 105
Jones, O. R. 3889, 4168
Jones, P. G. 2421
Jones, R. A. 2065
Jones, R. E., Jr. 4986
Jones, R. K. 7355
Jones, R. L. 4825, 5711, 6393, 8134
Jones, R. S. 1655
Jong, D. W. de 1252
Jong, J. P. de 1156
Jong, S. K. 4250
Jonsson, L. 470, 6049
Jonušytė, R. 4321
Joon, R. K. 4717
Jordan, C. F. 1967
Jordan, J. D. 3100
Jordan, M. O. 1926, 3313-3314, 8209
Jordan, W. R. 5614
Jørgensen, J. 4676
Jørgensen, L. N. 6380
Jørgensen, R. B. 4030
Joseph, C. A. 205, 216, 8241, 8245
Joseph, K. 8462
Joseph, K. D. S. M. 196, 2657
Joshi, A. K. 635, 1538, 2544
Joshi, B. S. 7399, 8381
Joshi, D. C. 7152
Joshi, H. C. 1555, 2023, 6670
Joshi, J. R. 2087
Joshi, P. A. 302
Joshi, R. K. 3948
Joshi, R. S. 4276, 7025
Joshi, S. S. 5037
Joshi, Y. C. 1020, 8385
Joshi, Y. R. 7089
Joshua, D. C. 1294
Journal of Jilin Agricultural University 3423
Journal of Plant Nutrition 6210
Joy, K. W. 540
Joy, P. P. 205, 8241, 8245, 8463
Joyce, P. A. 3243
Ju, Y. C. 4124
Ju, Z. Y. 4867
Juang, T. C. 4046, 4098, 6495
Judeanu, E. 7150
Judy, B. M. 4821
Julian, J. F. 764
Julien, M. H. R. 587
Juma, N. G. 3042, 4827
Jun, B. T. 4105
Jund, M. F. 6492
Jung, J. 6172, 8675
Jung, J. L. 5263
Jung, S. H. 6089
Jung, Y. T. 734, 1028
Junge, W. 3115
Jungk, A. 1318, 5475
Jupp, D. L. B. 567
Jurevičius, J. 5148
Jurkonienė, S. 3950
Jurkowska, H. 549, 6161-6162
Jurna, N. G. 4034
Jurzysta, M. 6309
Justes, E. 2032
Justin, A. M. 154
Justin, S. H. F. W. 2623, 4932
Juszczak, M. 964
Jůza, J. 136
Jyotishi, A. 7830, 8682
Kaack, S. 4906, 5687
Kabakci, H. 4713
Kabala, Z. J. 6622
Kabanov, V. F. 2439
Kabanov, V. I. 11
Kabashov, A. D. 4727
Kabata-Pendias, A. 6635
Kabeerathumma, S. 4506, 6008
Kabir, J. 5904
Kabisheva, T. 324
Kachapur, M. D. 769, 5680, 8654
Kachel, K. 102
Kachonpadungkitti, Y. 5035
Kachroo, D. 4154, 6693
Kadambavanasundaram, M. 4369
Kádár, I. 528
Kader, J. C. 154, 456
Kadi, N. 3812
Kadlec, M. 2752
Kadlík, A. 3620, 6845
Kadrekar, S. B. 5849
Kadu, P. B. 6516
Kae, B. M. 4515
Kafiriti, E. M. 8361
Kafka, L. 6845
Kafkafi, U. 3881, 7113
Kagawa, H. 4420
Kagawa, K. 5656
Kagdo, B. 6362
Kagita, F. 5665
Kahn, K. 5457
Kahng, J. G. 4891
Kahnt, G. 446
Kailappan, R. 835
Kaim, M. S. 7925
Kairon, M. S. 4080
Kairudin, N. Md. 4790
Kaiser, W. M. 3536
Kaizuma, N. 4227
Kajiwara, T. 4244
Kakati, N. N. 3806
Kakes, P. 7068
Kakimoto, T. 3016
Kakkar, K. K. 6212
Kakutani, H. 5399
Kálalová, S. 1012, 1702, 5014
Kalantidis, K. 7647
Kalaria, K. K. 2433, 5696
Kalashnikov, Yu. E. 3259, 8140
Kalashnikova, Z. V. 3843
Kalavathi, D. 5041, 5901
Kalburtji, K. L. 8107
Kale, H. B. 5400
Kale, M. R. 2983-2984, 5257, 5259-5260, 6951, 8650
Kale, P. P. 2520
Kale, V. C. 4640
Kaleemullah, S. 1026
Kalembasa, D. 2841
Kalembasa, S. 2841, 5333
Kaler, V. L. 3712, 8616
Kalikinskiĭ, A. A. 5239
Kalinenko, I. G. 3160
Kalita, B. 8458
Kalita, H. 3373

Kalita, M. M. 8458, 8668
Kalita, P. K. 3326, 6421
Kalla, R. 967
Kallay, E. 135
Kallela, K. 2737
Kallis, A. 1076
Kalman, S. 2063
Kalonge, S. 5556
Kalra, R. L. 8389
Kalsi, P. 3947
Kaluwin, C. 3004
Kalvová, J. 3847
Kalyan Singh 7146, 7991, 8682
Kamachi, K. 891, 4925
Kamada, H. 6984
Kamal, A. M. A. 668, 4368
Kamal, M. 979
Kamal-Eldin, A. 2973
Kamala, R. 1065
Kamalakar, J. A. 5549
Kamalaveni, R. 6575
Kamata, K. 6132
Kamath, K. S. 425, 427, 4520, 4555
Kamath, M. B. 282, 527, 6979
Kamath, S. 2315
Kamdi, J. T. 6483, 6515
Kamei, N. 5097
Kamel, A. S. 7616, 7744, 7749
Kamemura, K. 5842
Kamenir, È. A. 3203
Kamerling, J. P. 3831
Kamga, R. 5227
Kaminaga, A. 3256
Kamińska, J. 6403-6405
Kamiya, Y. 4933, 8260
Kamla Singh 8548
Kämmerling, B. 3722
Kamp, J. A. L. M. 1295
Kamprath, E. J. 7293, 8168
Kamuro, Y. 7427
Kamyab, A. 2627
Kanade, S. V. 4366
Kanade, V. M. 2334
Kanai, R. 5339
Kananji, B. 8735
Kanawade, L. R. 5123-5124
Kanayama, Y. 305
Kanber, R. 1332
Kanda, M. 219
Kandagal, S. S. 6764
Kandala, C. V. K. 3332-3334
Kandala, V. S. C. 7375
Kandasamy, G. 4369
Kandeel, N. M. 2936, 5184
Kandera, M. 8116
Kandil, H. M. 6042
Kandil, M. M. 332
Kane, M. V. 1001
Kaneko, H. 189, 1615
Kaneko, Y. 6997
Kanellis, A. K. 6998
Kanenga, K. 8366
Kanere, G. 7523
Kanetani, Y. 836, 8216
Kang, B. H. 6565
Kang, B. T. 2119
Kang, C. K. 7867
Kang, C. W. 6928
Kang, M. S. 4904
Kang, S. M. 2679
Kang, S. S. 4549, 7794
Kang, S. W. 308
Kang, S. Z. 3179
Kang, U. G. 1028
Kang, Y. K. 3846, 4354
Kang, Y. S. 4808, 6348
Kania, W. 4033
Kaniuga, Z. 1530
Kannaiyan, J. 1097
Kannaiyan, S. 6573
Kannan, K. 8374, 8744
Kannan, L. 1080
Kannan, S. 2810
Kannappan, K. 1898, 2370, 3784
Kanne, B. K. 1587, 3459, 4166, 4209, 4211
Kano, H. 3377
Kano, M. 2658
Kanomi, K. 5813
Kansal, B. D. 145
Kanthack, R. A. D. 8156
Kantselyaruk, R. M. 3617
Kanwar, K. 4613, 7040
Kanwar, R. S. 1269, 1272, 2633, 3326, 3805, 6421, 7017, 7033, 7038
Kanwar Singh 6128
Kanzikwera, R. 399
Kao, C. H. 1525, 1570, 2153, 2676, 4919, 7868
Kao, W. Y. 2183, 5005
Kaoud, E. E. 5782, 5823
Kape, R. 4424
Kapelev, O. I. 723
Kapoor, K. K. 4738, 7960
Kapoor, R. 5447
Kapoor, R. L. 2718
Kapulnik, Y. 6092
Kapur, A. 5031
Kapur, J. 1272
Kapur, M. L. 3805, 6425
Kapur, O. C. 7298
Kapusta, G. 1510
Kapuya, J. A. 5111
Kar, P. C. 7383
Kar, S. 3131, 3905
Kara, A. N. 4315
Karabaev, M. K. 813
Karadge, B. A. 2177
Karahara, I. 5814
Karakis, K. D. 796
Karam Chand 2464
Karamathullah, J. 1898, 2370, 3784
Karanov, E. 2624, 8131, 8732
Karanov, E. N. 5796
Karanth, N. G. K. 8252
Karataglis, S. 655
Karayianni-Christou, M. 1394
Karczewski, J. 7930
Kareem, A. A. 835, 2879
Karelia, G. N. 948
Karim, F. 1088
Karim, M. A. 184, 845, 6481, 6491
Karim, M. M. 844
Karim, M. M. A. 1231
Karim, Z. 1914
Karimova, F. G. 3529, 6725
Karimova, Z. 6039
Karin, M. A. 8111
Karivaratharju, T. V. 7773
Karki, J. B. S. 1967
Karki-Chetri, S. 5619, 7049
Karle, A. S. 934, 7688, 7727
Karlen, D. L. 5541
Karlsson, C. 8099
Karmanenko, N. M. 622, 3137
Karnaukh, V. I. 7944
Karnavat, B. B. 5696
Karolin, A. 1076
Karoń, B. 3029
Karpachev, V. V. 4444
Karpenko, A. A. 1215
Karpenko, M. È. 7207
Karpenko, M. I. 1758
Karpenyuk, T. A. 52, 3454
Karpińska, Z. 3966
Karpukhina, A. M. 7825
Karputov, S. A. 7708
Karr, A. L. 5015, 7554
Karr, D. B. 7554
Karrer, E. E. 893, 8255
Karsunkina, N. P. 5936
Kartashkin, B. A. 3666
Kartashova, E. R. 7817
Kartha, K. K. 3956
Kartsev, Yu. G. 4430, 8530
Karunagaran, D. 6785
Karunakaran, R. 6623
Karvonen, T. 2529
Karyekar, S. K. 6872
Kasamo, K. 2870, 5351, 5665
Kasana, M. S. 441
Kashchenko, A. S. 3814
Kashèŭskaya, V. V. 4401
Kashevskaya, O. V. 4401
Kashta, F. 2455
Kashyap, N. P. 5981
Kashyapi, A. 7993
Kaskar, D. R. 2692
Kaspar, T. C. 3081
Kasparova, I. S. 1824
Kasperbauer, M. J. 2924
Kasran, R. 2820
Kassahun Zwedie 7576
Kastori, R. 2338, 6662, 6838
Kasturi, K. 8227
Kasumov, K. K. 4075, 6453, 7352
Katagi, I. 5930
Katagiri, Y. 5866
Katayama, T. C. 3392-3394, 6557
Katekar, G. F. 8187
Katerji, N. 252, 2300
Kathiresan, G. 2369, 3038, 5307, 6114
Kathiresan, K. 7885
Kathiresan, M. K. 7043
Kathju, S. 6934
Katinakis, P. 4319
Katiyar, A. K. 7129
Katiyar, S. 5666
Kato, I. 4408
Kato, K. 62
Kato, M. do S. A. 2311
Kato, S. 7889
Kato, T. 3256, 4246, 5001
Kato-Noguchi, H. 2865, 5803
Katole, N. S. 1869
Katou, K. 2252
Katrichenko, M. I. 5597
Kats, G. 5086
Katsuta, J. 3026
Katsuta, M. 3361
Katsuzaki, H. 6933
Kätterer, T. 8001
Katterman, F. R. H. 493
Kattes, D. H. 4521
Kattler, K. H. 4720
Katual, P. K. 5022
Katyal, J. C. 7912
Katyal, S. K. 6953
Katyal, V. 922
Kauchik, L. S. 8397
Kaufman, L. S. 8441
Kaufman, P. B. 900, 2686, 3109, 6345
Kaul, H. N. 5964, 6864
Kaul, J. N. 4724, 7322
Kaul, R. 1942
Kaur, B. 4357
Kaur, G. 1187, 4953
Kaur, H. 477, 4785
Kaur, J. 3912, 4955, 5031, 8518
Kaur, K. 2327
Kaur, N. 1741
Kaur, N. P. 3930, 8493
Kaur, P. 5261
Kaur, R. 5228
Kaur, S. 4608
Kausar, A. G. 7678, 7779
Kausar, M. A. 2152
Kaush, M. V. 284
Kaushik, J. P. 981, 5720, 6641
Kavi, P. S. 2393, 3863
Kavunets, V. P. 614
Kawabata, C. 5441
Kawada, N. 2545
Kawai, S. 6154
Kawakami, N. 5441
Kawakatsu, M. 1126-1129
Kawakishi, S. 6933
Kawale, B. R. 8315
Kawamura, S. 4247
Kawano, S. 2357
Kawashiro, H. 2950
Kawasumi, M. 6933
Kawata, T. 5928
Kayastha, A. M. 5854, 7655
Kayem, G. J. 5227
Kayum, M. 1799
Kaylen, M. S. 827
Kayode, G. O. 6429
Kays, S. J. 7734
Kazakova, I. P. 2035
Kazakova, V. N. 5936
Kazankov, A. F. 3285
KC, S. 5619, 7049
Ke, F. Y. 204
Ke, Y. Q. 3014, 3794
Kean, D. 341, 8405
Kearns, A. 2775
Kedar, G. S. 5220
Keegstra, K. 329, 4303
Keel, C. 4698
Keeling, J. W. 4517
Keeling, P. L. 8075
Kefyalew, A. 2019
Kell, A. 3993
Keller, B. 1072, 6175
Keller, F. 8484
Keller, W. A. 3759
Kelly, J. D. 6748-6749
Kelly, M. O. 2626
Kelsa Kena 7853
Kelsoe, J. J. 5682
Keltjens, W. G. 245-246, 5686
Kemp, K. 6722
Kena, K. 7853
Kenaschuk, E. O. 6939-6940
Kendall, E. J. 3956
Kende, H. 901, 903
Kendig, A. 5430
Kendrick, R. E. 5453
Kene, D. R. 5092, 5248, 6779, 6796
Kene, H. K. 2981, 2983-2984, 5023, 5257, 5259-5260, 6951, 8650
Keneni, G. 7576
Keng, J. C. W. 2180, 6518
Kenghe, R. N. 5123-5124
Kenig, A. 4252
Kenis, J. D. 4795
Kenjale, S. T. 2197
Kennedy, I. R. 1939
Kennedy, J. 8693
Kennedy, R. A. 2390, 4158
Kennedy, T. D. 7194
Kennedy-Ketcheson, E. C. 4646
Kenworthy, W. J. 2785
Kenyon, J. S. 3021
Kephart, K. D. 522
Kerber, E. 8135
Kerby, K. 2560
Kerby, N. W. 2054, 6330
Kerby, T. A. 429
Kerimov, S. Kh. 5436
Kerketta, R. 539
Kerman, J. A. 8118
Kerni, P. N. 8479
Kerr, N. J. 4718
Kerr, Y. 8353
Kershaw, C. D. 1950
Kersulec, A. 372, 1749
Kesavan, P. C. 2081
Keshan, U. 5094
Keshwa, G. L. 3437, 5698, 6621
Kessel, C. van 8507
Kesseler, A. 7722
Ketring, D. L. 4288
Kettlewell, P. S. 2295, 3649, 4731
Keul, M. 6279
Keulen, H. van 3990, 4685, 6191
Kevers, C. 4441
Key, A. J. 5487
Keys, A. J. 5080
Keys, M. M. 8139
Keyser, H. H. 304
Khabibullaev, È. 1170
Khade, K. K. 4641
Khadi, B. M. 1194
Khadka, R. J. 5511, 6221
Khadse, A. R. 6941
Khadse, R. R. 4113
Khadtar, B. S. 889
Khaĭdarov, È. 6035
Khaĭdarova, Zh. S. 53
Khaĭrullin, I. M. 3146, 8555
Khairullin, R. M. 7205
Khairwal, I. S. 2419
Khalaf, S. 5066
Khalak, A. 6138, 8551
Khalfe, S. D. 3584
Khalifa, R. 2889
Khalil, M. H. 8014

Khalil, N. A. 2582-2583, 2586, 2889
Khalil, O. H. S. 2462
Khalil, S. 2799
Khalil, S. K. 8117
Khalilov, I. I. 8681
Khaling, E. A. 6944
Khamis, M. A. 5782, 5823
Khan, A. 8020
Khan, A. A. 3554
Khan, A. G. 7666
Khan, A. H. 5450, 5693
Khan, A. R. 7495
Khan, E. 7525
Khan, E. A. 1397
Khan, F. A. 5128
Khan, G. D. 8274
Khan, G. M. 5630, 6078
Khan, G. S. 3789, 8715
Khan, H. 1397, 8460
Khan, H. R. 7387-7388, 7404
Khan, I. 3789
Khan, J. K. 4414
Khan, K. A. R. 5640
Khan, M. 2011, 8020, 8575
Khan, M. A. 1436, 6491, 8259, 8488
Khan, M. I. 6061
Khan, M. J. 8079, 8714
Khan, M. M. 6012
Khan, M. R. 1019
Khan, M. S. 1743
Khan, M. U. 2068, 5275
Khan, N. 7218
Khan, N. A. 5128, 6985
Khan, R. A. 3895
Khan, R. I. 8258
Khan, S. 3897
Khan, S. T. A. 376
Khanal, R. 6187-6188
Khanday, B. A. 5090, 6428, 7320
Khandekar, M. L. 2743
Khandin, A. V. 3706
Khandkar, U. R. 8686
Khandwe, N. 7674, 7676
Khandwe, R. 281, 7674-7676
Khanif, Y. M. 6506
Khanizadeh, S. 3854
Khanna, P. 6978
Khanna, V. K. 230, 1101, 5119, 5892
Khanpara, V. D. 8285
Khanvilkar, S. A. 2334, 2374, 4126, 4366
Kharche, S. G. 6896, 8600
Khare, A. K. 7251, 8501
Khare, D. 1057
Khare, J. P. 4399, 7050
Khare, M. 8197
Kharwara, P. C. 6952, 7804
Khating, E. A. 6709
Khattak, J. K. 8018
Khatun, A. 907
Khayat, E. 4437
Khedekar, P. K. 4981
Khedr, E. A. F. 7310
Kher, D. 6078, 6140
Khera, K. L. 2636
Khirwar, H. S. 368
Khistaria, M. K. 934, 7727
Khizroeva, P. R. 8056
Khludnev, D. V. 7178
Khmelyuk, T. M. 4433
Khodjaeva, S. 1194
Khodyankova, S. F. 5239
Khodzhaeva, Sh. Kh. 1194
Khola, O. P. S. 1207
Khorikov, O. S. 6340
Khot, R. B. 5676, 6411
Khotpal, R. R. 1831
Khrebtova, G. B. 1783
Khristov, I. 3808
Khurana, G. P. 6145
Khurana, N. 4017, 5130
Khurana, S. C. 1808, 3641, 5935, 5937, 5939
Khushu, M. K. 4147, 4154
Khydyrov, B. T. 1827
Khzardzhyan, S. M. 3666
Kiatiwat, T. 1895
Kibite, S. 2467
Kicheva, M. I. 3253
Kichitsu, K. 4946
Kidanu, S. 1996
Kidin, V. V. 6262
Kidron, M. V. 1321
Kiehn, F. 6945
Kiehn, F. A. 3441
Kieleczawa, J. 1038
Kieliszewski, M. J. 2627
Kien, P. 48
Kiihl, R. A. de S. 4983
Kijima, N. 5590
Kikuchi, A. 3023, 4227
Kikuchi, F. 6984
Kikuta, S. B. 2869, 7217
Kikuta, Y. 2943, 8783
Kilambya, W. 4684
Kilburn, R. H. 5463
Kim, B. H. 852, 2103-2104
Kim, B. K. 4142
Kim, B. T. 6396
Kim, C. K. 4105
Kim, C. Y. 917
Kim, D. 2686, 6345
Kim, D. A. 2102
Kim, D. H. 6931
Kim, D. J. 4124
Kim, D. S. 6089
Kim, D. U. 915
Kim, E. H. 4261
Kim, E. S. 438
Kim, H. B. 3254
Kim, H. D. 852
Kim, H. H. 917
Kim, H. I. 3397
Kim, H. J. 198, 5183
Kim, H. K. 6931
Kim, H. S. 5727, 6650, 8328
Kim, H. Y. 5179, 5183
Kim, I. H. 734
Kim, I. S. 1028
Kim, J. C. 4974
Kim, J. D. 8236
Kim, J. G. 4891
Kim, J. H. 291, 4265, 6718
Kim, J. K. 195, 2102, 4107, 5183
Kim, J. T. 274, 937, 1205, 5028
Kim, J. W. 6565
Kim, J. Y. 840
Kim, K. H. 8235
Kim, K. S. 5183
Kim, K. Y. 2800
Kim, M. K. 3297, 4058, 4122
Kim, M. S. 2194
Kim, O. C. 3024
Kim, S. 8330
Kim, S. B. 3846
Kim, S. C. 834
Kim, S. D. 1614, 5727, 6650, 8355
Kim, S. S. 4105
Kim, S. T. 4969
Kim, T. H. 4234
Kim, T. J. 8212
Kim, T. S. 1078
Kim, V. 3710
Kim, W. H. 1614, 5727, 6650
Kim, W. T. 8331
Kim, Y. C. 287, 1031, 2785
Kim, Y. D. 8326
Kim, Y. G. 4123
Kim, Y. H. 3024, 5727, 6650
Kim, Y. J. 3340
Kim, Y. T. 3024
Kimball, B. A. 7772
Kimpinski, J. 4014
Kimura, S. 4927, 4936-4937, 7428
Kimura, Y. 5000, 5245
Kimwaki, J. W. 8358
King, B. A. 5200
King, B. J. 1477-1478
King, D. 1518
King, P. S. 4283-4284
King, R. W. 6318
King, S. R. 90, 8091
Kingston, R. W. 1460
Kingston-Smith, A. H. 5080
Kiniry, J. R. 251, 459, 3270, 8047
Kinoshita, I. 4342
Kinoshita, O. 7301
Kinoshita, S. 7301
Kinoshita, T. 1053, 1575
Kinraide, T. B. 656
Kinzel, H. 3291
Kirby, E. J. M. 5438
Kirby, J. M. 3084, 6181
Kirchmann, H. 1291
Kirda, C. 6306
Kirdin, V. F. 3451
Kirdyaĭkin, A. F. 4064
Kirdyashkin, V. V. 80
Kiriakos, S. 2916
Kirichenko, V. P. 613
Kirichenko, V. V. 6954
Kirikoĭ, Ya. T. 4430, 8530
Kirillov, A. K. 3203
Kirk, D. W. 2561
Kirk, W. W. 3683
Kirkby, E. A. 537
Kirkegaard, J. A. 361-362, 5115
Kirkham, R. 7721
Kirkland, K. J. 5271
Kirkwood, R. C. 3496, 4089, 4206
Kirleis, A. W. 2167
Kirnos, S. V. 3172
Kirpal Singh 3004
Kirpichnikov, N. A. 3141
Kirschbaum, M. U. F. 7778
Kirti, P. B. 1874, 8689
Kiryu, M. 3256
Kisakye, J. 2235
Kisha, T. J. 3924
Kishor, K. 8478
Kishor, P. B. K. 2963, 3458, 4579
Kišonas, Z. 4321
Kiss, A. S. 4838
Kiss, F. 51
Kissel, D. E. 2596
Kitada, K. 843
Kitagawa, Y. 913
Kitahara, S. 2545
Kitahara, T. 8783
Kitajo, S. 8774
Kitamura, K. 4227, 5757, 8336
Kitchen, R. B. 5182
Kito, M. 8336
Kitoh, S. 1293
Kitou, M. 902
Kitur, B. K. 4843
Kiver, V. F. 124
Kjær, S. 1166
Kjellerup, V. 5505, 7140
Kjellquist, T. 7133
Kjellström, C. 1251
Klaij, M. C. 2719, 5702
Klank, I. 81
Klar, A. E. 1378
Klavets, E. A. 1420
Kleczkowski, L. A. 1923, 3826, 4022, 8130
Klee G., G. 4102
Kleijer, G. 636, 711
Kleiman, R. 6083
Klein, D. 3652
Klein, J. D. 3890
Klein, M. 3524
Kleinkopf, G. E. 3680
Klenova, M. I. 5465
Klepacka, M. 381
Kleppe, C. D. 1943
Klepper, L. A. 7455
Kleps, C. 8791
Kler, D. S. 477, 2434
Klerk, H. 707
Klethi, P. 5267
Klik, A. 4221
Klima, K. 5513
Klimashevskaya, N. F. 1385
Klimashevskiĭ, E. L. 1385
Klimchuk, D. A. 1864, 4577
Klimov, S. V. 74, 4803
Klimov, V. 8409
Klimov, V. V. 4298
Klimovich, A. S. 3214
Klinck, H. R. 2548
Klochko, N. A. 2890
Klocke, N. L. 139
Kloepper, J. W. 5358
Klooster, J. J. 1935
Kloppstech, K. 6732, 6734, 7612
Klucas, R. V. 2184, 6828
Kluge, E. 3452
Kluitenberg, G. J. 946
Klusák, H. 2562
Klyachko, N. L. 4328, 7184
Klyuikova, A. I. 1418, 7170, 8619
Knaak, C. 4331
Knappe, S. 7398
Knatt, C. J. 5055
Knauber, D. C. 8071
Knaust, R. 6390
Knee, M. 4866
Knežević, M. 7007
Knight, A. C. 7110
Knight, C. W. 108, 397, 5495
Knight, J. D. 8507
Knight, M. E. 491
Knight, S. 6270
Knight, T. L. 6395
Knittel, H. 624, 2735, 7487
Knobel, H. H. 4739
Knoetzel, J. 4822
Knöfel, H. D. 5531
Knogge, W. 4023
Knoppik, D. 4781
Knott, C. 340, 379
Knott, C. M. 588
Knott, W. M. 55, 5432
Knowles, N. R. 2949, 4489, 6873
Knowles, P. F. 1046
Knowles, T. C. 7992
Knox, J. P. 552
Knutson, C. A. 158
Knyazikhin, Y. V. 4674
Knypl, J. S. 1262
Ko, B. R. 228
Ko, M. S. 4354
Ko, T. P. 5138
Kobata, T. 3965
Kobayashi, A. 3367
Kobayashi, H. 3398, 5661
Kobayashi, I. 1681
Kobayashi, K. 7551
Kobayashi, M. 6870, 8185, 8260
Kobe, A. 8297
Kobilarov, N. 1796
Koblov, R. K. 1816, 3706
Kobrehel, K. 51
Kobza, J. 1928
Koc, J. 3057-3058
Koç, N. K. 1799
Kocabas, Z. 3975
Koçak, N. 1443
Koch, K. E. 4863
Koch, P. 3102
Kochan, J. 2274
Kocher, M. F. 4901
Kochhar, S. 6109
Kochian, L. V. 656, 658-659, 791, 1416, 2554, 2606-2607, 3298, 4858, 5578, 6292, 7173, 7599, 8053, 8167, 8413
Kochubeĭ, S. M. 320, 7166, 7920-7921
Kochugov, A. M. 1678
Kočová, M. 2107
Kocsy, G. 7201
Koda, H. 2658
Koda, Y. 2943, 8783
Kodama, M. 4924
Kodama, O. 4935, 7430
Kodermel, S. R. 4240
Koerselman-Kooij, J. W. 2828
Koetje, D. S. 2777, 4922
Kof, E. M. 4081
Kofoid, K. D. 8291-8292
Koga, K. 4208
Kogai, M. T. 5384
Kogan, M. 3484
Kogano, K. 3342
Kogure, K. 1048
Kogut, B. 2258

Koh, H. J. 237
Kohale, S. K. 7751
Kohda, H. 7873
Kohire, O. D. 8487
Kohl, R. A. 2781
Köhler, K. 1846
Kohli, R. K. 2248, 3861
Kohri, K. 1004
Koide, M. 3368
Koide, S. 2653
Kojima, H. 3251
Kojima, M. 5109, 5866, 5914
Kok, L. J. de 3973
Kokate, R. P. 6583
Köksel, H. 1443
Kokubo, A. 7662
Kokubun, M. 5778
Kokurin, A. V. 7074
Kokuyeva, Z. M. 645
Kolar, J. J. 6750
Kolar, J. S. 5414
Kolb, F. L. 3923, 6322
Kolber, Z. 7082
Kolek, J. 1961
Kolesnik, L. V. 5289
Kolesnik, O. V. 8013
Kolesnik, T. I. 7190
Kolesov, A. A. 3063
Kolganova, T. V. 6917
Koller, B. 4698
Kollipara, K. P. 990
Kolník, B. 7995
Kolosov, V. I. 723
Kolowca, J. 2494
Kölsch, E. 3687, 4458
Koltasheva, G. M. 2439
Kolupaev, Yu. E. 5467, 7924
Komada, H. 5842
Komai, Y. 2797
Komaki, K. 3689
Komar, S. 1034
Komasadomi, T. 3696
Komatsu, Y. 2660
Komayombi, J. 399
Komor, E. 1287, 1835
Komossa, D. 3068-3069
Konchukovskaya, G. I. 1770
Kondap, S. M. 1544
Kondo, H. 1574
Kondo, J. I. 1817
Kondo, T. 7245
Kondra, Z. P. 3751
Kondrat'ev, R. B. 265
Konduratskaya, N. L. 2108
Kong, F. L. 8213
Kong, P. 6533
Kong, W. S. 8235
Konieczny, G. 1641, 7501, 7518
Koning, G. H. J. de 701
Konjevic, R. 1254
Konno, H. 6017
Kono, Y. 176, 8048
Kononchuk, V. V. 6226
Kononova, G. A. 6000
Kononowicz, H. 4922
Konopleva, A. A. 8702
Konovalov, Yu. B. 2890
Konstantinova, T. N. 414, 3679, 8585
Kontoes, C. 8803
Konuk, F. 1181
Koo, J. Y. 8235
Kooistra, M. J. 8062
Koop, H. U. 7285, 8698
Kodes, L. 8202
Kopp, R. 1775, 3644
Koppalkar, B. G. 5780
Koraddi, V. R. 425, 427, 2315, 4520
Koradia, V. G. 1020
Koranne, K. D. 1555
Korath, A. 7895
Korayem, A. M. 1625, 6524
Korc, M. 6251
Korcak, R. F. 1890
Korcz, A. 4404
Kordan, H. A. 4159
Kordyum, E. L. 1864, 4577
Korea Republic, Rural Development Administration 6203
Koren'kov, D. A. 662
Korenkov, D. A. 662
Korkor, S. A. 316, 370
Kormilitsin, V. F. 280
Korndorfer, G. H. 4616-4617
Korneva, S. B. 509
Kornienko, L. N. 4433
Korobov, R. M. 7195
Korol, W. 2740
Koroma, S. S. 827
Körschens, M. 1311
Korshak, V. V. 613
Kortam, M. A. 5069
Korts, M. 6251
Korytov, M. V. 4773
Kosaka, Y. 5658
Kościk, B. 6087
Kosegarten, H. 408, 5983
Koshanova, K. Sh. 2027
Koshkin, E. I. 4086
Kosilova, A. N. 6326
Kossowski, J. 4032
Kostandi, S. F. 144
Koster, K. L. 94
Kostić, M. 24
Kostić, M. A. 28
Kostka-Rick, R. 7649
Kostkanová, E. 6265-6266
Kostov, D. 8703
Kostyanovskiĭ, R. G. 5454, 7191-7192
Kostyuk, A. N. 7202
Kostyukov, V. V. 7966
Kosuth, P. 1009
Koszanski, Z. K. 7338
Kot, Z. 1905
Kotaru, M. 6758
Kotecki, A. 1297, 6721, 6733, 6739, 6742, 6820
Kothari, S. K. 2646
Koti, R. V. 6764
Kotlizky, G. 178
Kotova, L. V. 7179
Kott, L. 5276
Kotvalt, V. 5360
Kotzabasis, K. 6390
Kouamé, C. N. 2717, 7472
Kouassi, A. S. 1062, 6747
Kouchkovsky, Y. de 1748, 3877, 7685
Kouno, K. 3429, 4966
Kováč, K. 1374, 1486
Kovačević, V. 8323
Kováčová, M. 6840, 6843
Koval, L. 7964
Kovalenko, A. A. 1990
Kovalenko, A. M. 6954
Kovalenok, M. F. 6855
Kovalevich, Z. S. 3521, 7591
Kovar, J. L. 3263
Kovbasiuk, E. V. 1132
Kovlyagin, F. V. 1603
Kozev, V. P. 3814
Kozharinova, G. M. 374
Kozibroda, Ya. I. 3619
Kozinka, V. 1961
Koźmiński, C. 1802, 4202
Krab, K. 3662
Kraevskiĭ, A. N. 1215
Kragh, K. M. 4660
Krajčovič, V. 8806
Krakhmalev, V. A. 2326
Krakowiak, A. 4606
Kräling, K. 2992
Krall, J. P. 4069
Kram, A. M. 4473
Kramarenko, I. V. 383
Kramell, H. M. 5531
Kramell, R. 5531
Kramer, D. M. 3852
Kramer, G. F. 1075, 2244, 5010
Kramer, K. J. 743
Kranz, E. 4877
Kranz, W. L. 139, 5551
Krapa, L. I. 1117
Krasnikov, V. V. 80
Krasnyanski, S. 6960
Kraszewski, A. W. 2822
Krätzig, P. 5967
Kratzke, M. G. 2932
Kratzsch, G. 7158
Krause, G. F. 4821
Krause, G. H. 533
Krause, H. 6180
Krauss, M. 1936
Krausz, R. F. 1510
Krautzer, B. 5966
Kravchenko, N. A. 6340
Kravtsova, N. P. 395
Krawczyk, S. 8444
Kreeb, K. H. 67
Krefft, L. 2928
Kreicbergs, O. 3455
Kremer, D. F. 996
Kremer, M. 3170
Kremin, V. V. 5238
Kren, J. 3990
Krendelova, T. E. 7922
Krest'yaninova, N. N. 29
Kretlovich, V. L. 5898
Kretschmer, H. 58-59, 81
Kreuz, E. 2, 9, 84, 97
Kreuz, K. 2617
Krężel, R. 2268, 2527
Krieg, D. R. 2712-2713
Krieghoff, E. 7545
Krikun, J. 3849
Krikunets, V. M. 1616
Krishna, V. G. 1735
Krishnamurthy, B. 7407-7408
Krishnamurthy, K. 3572, 4389, 4965, 6812, 7337
Krishnamurthy, K. C. 3410
Krishnamurthy, R. 924, 1578, 5672
Krishnappa, K. S. 4452, 7713
Krishnappa, M. 4278
Krishnaraj, P. U. 37
KrishnaRaj, S. 5468
Krishnasamy, R. 211
Krishnasamy, S. 8471
Krishnayya, G. R. 4150, 5663-5664
Kristensen, K. 4676
Krištín, J. 8207
Kritskii, M. S. 6453
Kritzinger, J. H. 3181
Krivosheeva, A. A. 5046
Krizek, D. T. 2244, 5010
Kröger, B. 3898
Krol, M. 532, 650
Krömer, S. 8128
Kronenberger, J. 3018
Kropff, M. J. 874, 1130, 5383
Kroschewski, A. 7586, 7774
Krüger, G. H. J. 6098
Kruger, N. J. 1153, 4475, 5189
Krüger, W. 92, 7234
Krull, D. H. 139
Krupa, Z. 2068, 6752
Krupnova, I. V. 3195
Krupovnickienė, A. 3950
Kruse, E. 7612
Krutz, G. W. 7219
Krygier, D. 2850
Krylov, S. S. 2439
Krystecka, M. 3966
Kryzanowski, L. 4813
Krzywański, Z. 5461
Krzywy, E. 7224
Krzyzanowski, F. C. 4216
Kshistaria, M. K. 8801
Ku, M. S. B. 1204, 4745
Kuang, A. 1642, 4253
Kuang, T. Y. 3545
Kuang, Y. H. 2161
Kuberappa, G. C. 1551
Kubik-Dobosz, G. 4310
Kubínová, L. 7949
Kubiś, J. 5461
Kübler, E. 39, 7116
Kubo, H. 7245
Kubota, F. 6547, 7733
Kubota, J. 2391
Kubowicz, D. 8343
Kubresh, N. P. 1447
Kubsad, V. S. 5679
Kuburović, M. 3158
Kuchar, L. 4675
Kucharski, J. 27, 7914
Kuchlan, P. 5480
Kuchuk, N. 1091
Kuchuk, N. V. 8421
Kücke, M. 5332
Kuderna, M. 5557
Kudlicka, K. 6031
Kudou, S. 5757, 7543-7544
Kudoyarova, G. R. 4081, 7189
Kudryashov, Yu. S. 8549
Kudryavtseva, L. F. 6842
Kuduk, C. 6647
Kueneman, E. A. 983
Kuga, S. 6031
Kuhlmann, H. 3182
Kühn, G. 5788
Kuhn, W. 8832
Kühtreiber, W. M. 4858
Kuiper, D. 3260
Kuiper, P. J. C. 3973, 4419
Kujira, Y. 190
Kukade, N. N. 6902
Kukimura, H. 3689
Kukreja, K. 4738
Kukurović, M. 3161
Kukushkin, V. A. 4444
Kula, M. R. 7421
Kulandaivelu, G. 1086, 1314, 2254
Kulasooriya, S. A. 5141
Kulat, S. S. 6902
Kul'bida, V. V. 3
Kulhare, P. S. 3142, 7395-7396
Kulia, S. 480
Kulikauskas, A. 6341
Kulkarni, A. S. 1831
Kulkarni, B. S. 4162
Kulkarni, G. N. 354, 4052, 5781, 6054, 6794
Kulkarni, J. H. 8725
Kulkarni, K. A. 1727
Kulkarni, K. R. 5122, 6694, 7566, 7570
Kulkarni, N. 1549
Kulkarni, R. S. 8251, 8263
Kullmann, A. 2482-2483
Kulmi, G. S. 6538, 8243
Kulwinder Singh 564
Kumagai, K. 200
Kumagai, T. 3983
Kumagei, T. 3409
Kumano, S. 1004
Kumar, A. 683, 685, 1873, 3001, 4358, 7022, 7476, 7837, 7841, 7892
Kumar, B. S. D. 1092
Kumar, B. V. 7799
Kumar, D. 3523
Kumar, D. P. 6012
Kumar, G. N. M. 6873
Kumar, G. P. 5827
Kumar, J. 2884, 5396
Kumar, K. 2636, 5024, 5478
Kumar, M. 7322
Kumar, N. 2705, 4318, 6799
Kumar, P. 3574, 6810, 6991
Kumar, P. H. 7851-7852
Kumar, P. R. 1362
Kumar, R. 4203, 4392, 5268, 5887, 5965, 6803, 8743
Kumar, R. L. R. 8659
Kumar, S. 1104, 3032, 4359, 5416, 6056, 7893, 8019, 8038, 8716
Kumar, T. N. A. 1598
Kumar, V. 2446, 5419, 5481, 6889, 6919, 7093
Kumar, Y. 5398
Kumarasinghe, K. S. 6306
Kumaraswamy, A. S. 6138, 8551
Kumaraswamy, K. 3784, 7020
Kumaravadivel, N. 943
Kumari, N. 6992
Kumari, R. P. 6887
Kumari, S. 3427, 6061
Kumawat, G. L. 7476
Kumbhar, A. 8409
Kumbhar, A. M. 1380
Kumosinski, T. F. 5770, 6444
Kumpawat, B. S. 6691
Kundra, H. 8372
Kundu, B. S. 6798
Kundu, D. K. 4910
Kundu, G. G. 6653

Kundu, S. 5705
Kundu, T. K. 516
Kunert, K. J. 3019
Kunihiro, Y. 6533
Kunikata, T. 2778
Kunitake, M. 7412
Kunitsa, V. M. 124
Kunju, U. M. 6135
Kunkel, D. L. 4855
Kunkel, K. E. 7364
Kunoh, H. 1681
Kuo, J. 3608
Kuo, S. Y. 350
Kuo, T. T. 1567
Kuo, W. 127
Kuo, Y. H. 1113
Kupatt, C. C. 7982
Kupkanchanakul, T. 194
Kuppelwieser, H. 651
Kuppuswamy, G. 2749, 8233
Kurakov, S. A. 11
Kuramoto, M. 6017
Kuramshin, R. 49, 410
Kuranouchi, T. 1127-1129
Kurbangel'dyev, S. K. 8610
Kurdikeri, C. P. 4593
Kuribayashi, I. 4927, 7418, 7927
Kurkova, E. B. 3250
Kurmi, K. 8668
Kuroda, K. 994
Kuroda, T. 1004
Kuroiwa, T. 2357
Kurosawa, K. 5928-5929
Kuroyanagi, T. 2693
Kurundkar, B. P. 8315
Kuruppuarachchi, S. D. P. 4477
Kuś, J. 710, 1601, 1601, 1979-1980, 8304
Kuś, Jan 1601
Kuś, Janina 1601
Kushenov, B. M. 4064
Kushnak, G. D. 3924
Kushnarenko, S. V. 8068
Kushnirenko, M. D. 3839
Kushwaha, B. B. 2701
Kushwaha, B. L. 362, 5830, 5834
Kushwaha, H. S. 1098, 7587, 8226, 8514
Kushwaha, R. L. 7651
Kushwaha, S. S. 2701
Kustarev, A. I. 4464
Kutík, J. 1322
Kutschera, K. 2467
Kutschera, U. 1846
Kuusk, A. 2083, 3104
Kuwabara, T. 3983
Kuziemska, B. 5333
Kuzma, J. 5912
Kuzma, M. M. 4239
Kuznetsov, E. D. 3191, 7190
Kuznetsov, V. V. 1827
Kuźniewicz, M. 5209
Kuzyutin, A. V. 1764
Kvasov, V. A. 19
Kvist, M. 6357
Kvyatovskiĭ, A. F. 8160
Kweon, S. J. 3396
Kwiatkowski, J. 8675
Kwon, B. S. 198
Kwon, C. H. 2102
Kwon, D. K. 1114
Kwon, Y. R. 228
Kwon, Y. W. 4141
Kyllingsbaek, A. 5517-5518
Kyuĭts, Kh. 3237
La Bonte, B. R. 8595
Laar, H. H. van 5383
Laat, A. de 1136, 7703
Laba, V. I. 3706
Labana, K. S. 1248
Łabędska, E. 1135
Łabędzki, L. 6230
Laborde, H. E. 8293
Labrador, E. 8495-8496
Łabuda, S. 7230
Labuschagne, M. T. 684
Lacewell, R. D. 3270
Lack, D. W. 242
Lad, S. K. 4180
Ladha, J. K. 586, 7406
Ladonin, V. F. 2440
Lados, M. 8527
Lafarge, M. 3252
Lafever, H. N. 1446
Lafond, G. P. 4720
Lage, G. 4677
Laghate, P. K. 8378
Lago, A. 7866
Lago, A. A. do 2134
Lagoa, A. M. A. 1070
Lahajnar, G. 4085
Lahiri, A. N. 6934
Lahiri, K. 5874
Lahoz, E. 4295, 4334
Lai, C. C. 4291
Lai, D. M. L. 3941
Lai, K. L. 3378
Laidman, D. L. 3576, 4364
Lainé, P. 8769
Lainsbury, M. 3879
Lairungreang, C. 2873
Lakhani, S. 5447
Lakhanov, A. P. 1893, 3528, 4301, 5791
Lakhdive, B. A. 3569, 7875
Lakhvir Singh 5283
Lakkineni, K. C. 5341
Laks, P. E. 8820
Lakshmaiah, K. 3415
Lakshmanan, A. 2749
Lakshmanan, A. R. 8233
Lakshminarasimhan, C. 860
Lakshminarayana, G. 3456
Lakshminarayana, K. 2718
Lal, B. 7390
Lal, J. P. 1208
Lal, M. 5816
Lal, N. 3799, 7041
Lal, P. 7476
Lal, P. B. 6769
Lal, R. 3046, 8198
Lal, S. 1808
Lal, S. S. 8734
Lalonde, S. 4768
Laloraya, M. 5827
Laloraya, M. M. 1589, 5827, 8289
Lalymenko, L. A. 3414
Lalymenko, N. K. 3414
Lam, T. B. T. 4789
Laman, M. A. 4027, 4029
Laman, N. A. 4027
Lamb, C. J. 1888
Lamb, J. A. 338, 5923
Lamb, P. J. 1535
Lambais, M. R. 4351
Lambein, F. 1113, 4414
Lambers, H. 789, 4696
Lambert, A. M. 4875, 6457
Lamberti, F. 7083
Lambin, E. F. 7959
Lamelas, C. M. 63, 82
Lamers, J. G. 5324
Lammeren, A. A. M. van 4576
Lamond, R. E. 2162
LaMondia, J. A. 1878
Lamp, C. A. 3110
Lamport, D. T. A. 2627
Lamsal, K. 4208
Lance, R. C. M. 7278
Landers, K. F. 7680
Lane, B. G. 7194
Lanen, H. A. J. van 701, 2948
Lanfermann, M. 3644
Lanfranconi, L. E. 4465, 8567
Lang, A. 8700
Lang, B. 1474
Lang, H. 2735, 7487
Lang, M. 3011, 7791-7792
Langdale, G. W. 4531
Lange, J. 7704
Lange, T. 8133
Langebartels, C. 1259
Langeberg, L. 6677, 8341
Langenberger, S. 8634
Lanjewar, B. K. 5038, 6698, 7584
Lanosia, L. B. 781
Lanz, H. 7193
Lanza, F. 8798
Lanzl-Schramm, A. 1474
Lapa, V. V. 526, 6855
Lapaev, M. S. 6143
Lapinskienė, I. 5160
Lapochkin, V. M. 4727
Lapointe, L. 3997
Laptev, V. S. 11
Laquel, P. 6303
Lara, C. 7277
Larbi, A. 7304
Lardans, A. 486, 3006, 3763
Lardon, A. 8678
Larin, I. N. 2166
Laroche, A. 8674
Larre, C. 41
Larson, S. 3262
Larson, T. 8569
Larsson, C. 391, 8777
Larsson, C. M. 322, 1476, 4016, 5048, 8123, 8414
Larsson, K. 1772
Larsson, M. 322
Larsson, S. 4800
Larter, E. 3221
LaRue, T. A. 3537, 5809
Laryea, K. B. 1593, 8367
Lasca, D. H. C. 4290
Lascano, R. J. 2724, 7939
Lascaris, D. 4750
Laşcu, I. 132, 520
Lashkevich, R. I. 3888
Lashukevich, O. M. 6855
Laskar, B. K. 2665, 6507, 6772
Laskowski, M. J. 2217
Lastochkin, I. P. 5426
Latché, A. 457, 1720, 1849, 6957, 7813
Latha, K. R. 5675
Latif, A. 2098
Latus, C. 4093
Laub, C. A. 574
Läuchli, A. 163, 5233-5234, 8143
Lauenstein, G. 8572
Laura, J. S. 5137
Laura, R. D. 7960
Laurent, F. 34, 2754
Laurent, P. 4670, 6989
Lauri, P. E. 4547
Lauri, S. 8497
Laurière, C. 2118
Laurila, L. 2529
Laverick, R. M. 1050
Lavrent'ev, A. A. 328
Lavy, T. 5430
Law, D. M. 5808
Law, J. R. 1855
Lawand, B. T. 3610
Lawless, J. R. 6370
Lawlor, D. W. 593, 7984, 8082, 8088
Lawn, R. J. 3573, 5764
Lawrence, G. W. 1832
Lawrence, K. C. 3210, 3332-3334, 7221
Lawson, H. M. 3661
Lawson, S. L. 2343
Laxman, M. 4175
Laxman Singh 5879
Layzell, D. B. 2220, 3499, 4239
Laza, R. 6577
Lazăr-Keul, G. 6279
Lazare, M. 7963
Lazarides, M. 8825
Lazaro, E. 4684
Lázaro, J. J. 1039
Lazauskas, J. 6817
Lazer, P. N. 6954
Lazof, D. B. 3289
Lazzari, L. B. 961, 3919, 6631
Lazzaro, M. D. 1737, 5120
Lazzeri, P. A. 118
Lê, C. L. 7729
Le Dily, F. 8536
Le Houérou, H. N. 4687
Le Moigne, M. 2196
Le Page-Degivry, M. T. 5265
Le Roux, J. 606
Le Souder, C. 3054
Lea, J. D. 782
Lea, P. J. 540, 5389
Leach, J. E. 892
Leal, D. P. 5985
Leander, W. S., Jr. 1299
Leão, N. V. M. 4287
Leath, S. 2026, 8044
LeBansky, B. R. 2774
Lebedev, E. V. 2685
Lebedev, N. N. 1322
Lebedev, V. B. 3928
Lebedeva, G. F. 645
Leblanc, R. M. 1682, 1684
Lebouille, J. L. M. 7290
LeCain, D. R. 4743
Lecat, S. 6344
Lechinţan, T. 146, 573
Leckie, C. C. 4726
Lecoeur, J. 366, 2885
Ledent, J. F. 66, 164, 177, 1432, 2088
Ledig, G. 1429
Ledvina, R. 603
Lee, B. C. 4122
Lee, B. H. 6702, 6928
Lee, B. L. 7535
Lee, C. G. 100
Lee, C. J. 4978
Lee, C. S. 3376, 5649
Lee, C. T. 1948
Lee, C. W. 3764, 8256
Lee, D. J. 4142
Lee, E. H. 299, 1075, 2244
Lee, G. S. 417
Lee, H. B. 3297, 4058, 4854
Lee, H. C. 2931
Lee, H. D. 424, 4514, 4854
Lee, H. J. 233, 4169
Lee, H. S. 3503
Lee, J. B. 1409
Lee, J. H. 3254, 4978
Lee, J. I. 4549, 5028, 5274, 6702, 6903, 6928, 7794, 7844
Lee, J. M. 287
Lee, J. S. 4156, 4891
Lee, J. T. 915, 6559, 6565
Lee, J. W. 308
Lee, K. B. 6931
Lee, K. H. 3537, 5809
Lee, K. S. 911, 4156, 5246
Lee, L. 1812
Lee, M. H. 195, 937, 8253
Lee, P. D. 8253
Lee, R. B. 4084, 4860, 7346, 8124
Lee, R. D. 3136
Lee, S. C. 291, 6089
Lee, S. H. 3503
Lee, S. J. 3491
Lee, S. K. 1134
Lee, S. P. 911
Lee, S. S. 911, 4974, 8212
Lee, S. T. 4124
Lee, S. Y. 4105, 4978, 6348
Lee, T. M. 2681, 3401, 8273
Lee, U. J. 1078
Lee, W. W. 852
Lee, Y. H. 1730, 5727, 6650
Lee, Y. S. 274, 840, 1078
Lee-Stadelmann, O. Y. 8081
Leede, P. R. 694
Leemans, R. 5361
Lees, E. M. 3561
Lefèbvre, C. 2621
Leffel, R. C. 2785, 5776
Leffler, R. G. 3334
Lefkovitch, L. P. 2536
Lefohn, A. S. 5356
Lefroy, R. D. B. 794
Legendre, B. L. 4631
Legendre, L. 2186, 5006, 6664
Legha, P. K. 1218, 5877
Lehman, R. L. 7965
Lehmann, J. 706, 2372, 4025, 5531
Lei, J. C. 869
Leibl, W. 6731
Leibovitch, S. 2538, 2540
Leidi, E. O. 1027
Leigh, R. A. 4823, 5154, 5482
Leihner, D. E. 5695
Leistikow, E. 1774
Leistrumaité, A. 6375

Leistrumas, K. 6375
Lejeune-Henaut, I. 4220
Lelandais, M. 319, 3019
Lemaine, R. 391
Lemaire, G. 240
Lemanceau, P. 3090
Lemay, M. 5942
Lembcke, G. 1227
Lemerle, D. 642, 6376-6377
Lemke, P. A. 5358
Lemma, E. 7576
Lemma Zewdie 1970, 1998
Lemoine, R. 389, 3628, 8535
Lemon, K. M. 578-580
Lendini, M. 6631
Lengnick, L. L. 4055
Lenka, D. 7386, 7565
Lenman, M. 4587
Lenssen, G. 2057
Lenton, J. R. 713
Lenvain, J. S. 612
Lenz, F. 1138, 8380
Leo, O. 7957
Léon, J. 3231, 7280
Leon, S. Y. de 8474
Leonard, R. T. 4074
Leonardi, S. 2022
Leonchenko, N. F. 6371
Leonova, E. V. 141
Leonova, S. A. 6725
Leonova, T. G. 2682
Leopold, A. C. 2626, 2628, 2787, 6672
Lepoutre, D. 2058
Leprince, O. 789
Lerner, H. R. 4182
Lesch, S. M. 5469-5470
Lescure, J. C. 4871
Leskovar, D. I. 7735
Leslie, J. K. 2744
Lesoing, G. W. 4645
Lestari, H. 1268, 8720
Létal, J. 2752
Letcher, A. J. 1689
Letelier, A. E. 3901
Leterme, S. 8437
Letey, J. 1173
Letham, D. S. 3771-3772, 8697, 8781
Leto, C. 8666, 8669
LeTourneau, D. 5132
Leuba, V. 5132
Leubner-Metzger, G. 3678
Levanony, H. 2498, 4786, 7197
Levdanskaya, V. V. 7613
Leverenz, J. W. 2076
Levi, C. A. 4623
Levkovich, I. 8556
Levy, D. 3684, 4481
Levy, G. J. 3703
Levy, S. 6165
Levy, Y. 2133
Lewin, K. F. 7082
Lewis, D. J. 2295, 3649
Lewis, E. F. 494
Lewis, G. J. 8033
Lewis, L. N. 1068
Lewis, M. J. 3255
Lewis, O. A. M. 8050
Lewis, W. M. 4067
Lewosz, J. 8560
Lewthwaite, S. L. 8565-8566
Ley, T. W. 5365
Leydecker, M. T. 4599
Leykam, J. F. 2627
Leys, J. F. 2406
Leyshon, A. J. 4710
Lhomme, J. P. 2300
Li, A. P. 5768
Li, B. 1134, 4436
Li, B. S. 4699
Li, C. J. 5807
Li, C. Y. 6533
Li, D. Q. 3963, 4769
Li, F. 304
Li, F. H. 534
Li, F. Y. 6397
Li, G. 1046, 4163
Li, G. C. 3148
Li, G. R. 1082
Li, H. 1040, 2832
Li, H. C. 3957
Li, H. H. 3167
Li, H. S. 2156, 5813
Li, H. Y. 4151
Li, H. Z. 5654
Li, J. 6657
Li, J. R. 6533
Li, L. 3823, 5029, 6031-6033, 6706
Li, L. B. 6382
Li, L. R. 2836, 4767, 8778
Li, M. Q. 3516, 6150
Li, M. Z. 1200
Li, N. H. 6553
Li, P. 909
Li, P. H. 2638, 3668, 4882
Li, Q. H. 2944
Li, Q. K. 5633
Li, Q. M. 7142
Li, Q. S. 2960
Li, R. W. 2156
Li, S. F. 2382
Li, S. W. 7021
Li, S. X. 4210, 8339
Li, W. A. 1258
Li, W. L. 831
Li, W. W. 5064
Li, W. X. 2044, 4935
Li, X. B. 4360
Li, X. H. 672
Li, X. L. 3781
Li, X. M. 4756
Li, X. Y. 6533
Li, X. Z. 919
Li, Y. 1052, 6657
Li, Y. C. 865, 4991
Li, Y. D. 6493
Li, Y. J. 1651, 5766
Li, Y. Q. 6096
Li, Y. S. 6319
Li, Y. Y. 2382
Li, Z. C. 8100
Li, Z. S. 8535
Li, Z. W. 3860
Li, Z. Y. 6533, 7509
Li, Z. Z. 3095
Lian, L. P. 5715
Lian, S. 4071, 6530, 7323
Liang, B. C. 4844
Liang, C. H. 8164
Liang, F. Z. 5754
Liang, H. 2382
Liang, H. G. 3545, 5852
Liang, H. M. 4143, 6394, 6399
Liang, J. S. 2918
Liang, L. S. 1668, 7961
Liang, Q. 1646
Liang, S. H. 6397
Liang, S. L. 7086
Liang, Y. L. 7479
Liang, Z. S. 7828
Liao, H. Q. 1904
Liao, K. 3335
Liao, L. 1634
Liao, X. L. 5639
Liaw, S. I. 999
Libbenga, K. R. 4596, 8695
Liberata Barasebwa 1969
Libman, J. 1189, 6445
Lichner, S. 463
Lichtenthaler, H. K. 2477, 3011, 4307
Lidén, A. C. 5986
Lidon, B. 2408
Lidon, F. C. 224, 1565-1566
Lie, G. C. 811
Liebl, R. A. 2605, 2767, 3477
Lieckfeldt, E. 3986
Lieffering, M. 266
Lieth, H. 7237
Lightfoot, D. A. 8449
Lilani, A. T. 3948
Lim, J. T. 198, 233
Lim, S. M. 5736
Lim-Sylianco, C. Y. 8474
Lima, L. A. de 4242
Lima, M. L. de 2485
Limantova, E. M. 6855
Lin, B. 959, 6325
Lin, C. 4098
Lin, C. H. 1694, 5318, 5615
Lin, C. S. 4270
Lin, C. Y. 995
Lin, F. L. 5715
Lin, G. L. 1411
Lin, G. Y. 1469
Lin, H. 7497
Lin, H. C. 7535
Lin, J. J. 4158
Lin, J. L. 4219
Lin, J. T. 7200
Lin, K. H. 2350
Lin, M. 5670
Lin, P. L. 6657
Lin, Q. M. 2137, 5637
Lin, R. F. 3781
Lin, R. G. 870
Lin, S. F. 4218, 7351
Lin, T. F. 1564
Lin, W. B. 870
Lin, W. G. 5759
Lin, X. G. 3578
Lin, X. Q. 5715
Lin, Y. H. 1813-1814
Lin, Z. F. 3307
Linda, S. B. 5617
Lindemann, Y. 1124
Lindén, B. 5505, 6364
Linden, D. R. 4673
Lindeque, R. C. 4739
Lindgren, D. T. 7637
Lindner, H. 2117
Lindqvist, Y. 6383
Lindsay, J. G. 3530
Lindsay, J. I. 7661
Lindsten, A. 1408, 6298, 8061
Lindstrom, O. M. 8586
Line, R. F. 6272
Linedale, A. 7879
Linehan, D. J. 627
Ling, D. H. 910
Ling, J. 5692
Ling, V. 2228
Ling, Z. M. 4151
Lingam, B. 1581, 2706
Lingappa, S. 1727
Liniewicz, K. 4440
Link, D. 222
Linnemann, A. R. 5875
Linnemeyer, P. A. 5843
Linnik, N. N. 4021
Linscombe, S. D. 4121, 4125, 8238
Linscott, D. L. 791, 2606-2607, 5578
Lipavská, H. 4578
Lipiec, J. 4032-4033
Lipiński, Z. 5143
Lippmann, B. 4257
Lippmann, G. 4257
Lips, S. H. 1027, 8393
Liška, E. 1486
Lisnik, S. S. 284
Liso, R. 3989
Lisovskiĭ, A. E. 5355
Lisowski, A. 8553
List, B. 4307
Listova, M. P. 1430
Litrico, P. G. 2318, 8667, 8670
Little, D. B. 8674
Littleboy, M. 2510, 2744
Littlemore, J. 1875
Litvak, S. 6303
Liu, B. 495, 6670
Liu, C. L. 7344
Liu, C. M. 6079, 7842
Liu, C. Q. 6513, 6523
Liu, C. Z. 1193, 2341
Liu, D. J. 1303, 3495, 7351
Liu, F. S. 359
Liu, F. Y. 4143, 6399
Liu, G. L. 8277
Liu, J. 3037, 6533
Liu, J. H. 1847, 2336
Liu, L. 4839
Liu, L. J. 5765
Liu, L. W. 5745
Liu, R. H. 6334
Liu, R. N. 4483
Liu, S. Q. 2531
Liu, S. Y. 4918
Liu, T. G. 841
Liu, W. F. 4942
Liu, X. 809
Liu, X. B. 2044
Liu, X. J. 5749
Liu, X. M. 3179
Liu, Y. 5853, 6312
Liu, Y. P. 6657
Liu, Y. Q. 795
Liu, Y. Y. 3470
Liu, Y. Z. 1634
Liu, Z. S. 6553
Liutkevičius, G. 6375
Livesley, M. A. 54, 3937, 8076
Livore, A. B. 8237
Lo, C. C. 7030-7031
Lo, H. F. 1812
Lo, M. P. 3376
Lo, N. P. 3374
Lo, Y. S. 6548
Lobov, V. P. 3629, 8537
Locascio, S. J. 7716
Locher, R. 6392
Lodh, S. B. 227, 5664
Lodhi, G. P. 3422, 4170
Lodkaew, S. 7691
Loera-Gallardo, J. 6615-6616
Loewer, D. H. 7442, 8218
Loewy, T. 621, 697
Logachev, S. A. 7693
Logachev, Yu. B. 6836
Logiswaran, G. 5868-5869
Logsdon, S. D. 4673
Loh, C. S. 6972
Lohaus, G. 110
Lohse, G. 1054, 3546
Loidl, P. 2117
Loïko, R. É. 6002
Lokesh, K. S. 8796
Lokesh, R. 3590
Loktionov, G. G. 12
Lombardi, M. L. C. O. 4290
Lombardo, G. M. 4295
Lombardo, V. 2317, 7764
Lombin, G. 774, 1502
Lompo, F. 2600
Lomte, M. H. 4642
Londhe, G. M. 8661
Loneragan, J. F. 7691
Long, C. F. 1232
Long, D. M. 153, 801, 4076
Long, F. N. J. 1828
Long, J. N. 6053
Long, S. P. 2125
Longnecker, N. 5438
Longnecker, N. E. 3608, 6155, 8512
Longo, A. 2022
Longstaff, D. J. 694
Longstaff, M. A. 4824
Loomis, R. S. 3882
Loon, L. C. van 707
Lopatník, J. 6182
Loper, M. T. 6451
Lopes, A. 7348, 8353
Lopes, E. S. 4290
Lopes, N. F. 986
López, R. 7542
Lopez, V. F. 8287
López Martinez, J. 8653
Lopez-Otín, C. 3952
López-Otín, C. 4028
López-Peralta, M. 944
López-Peralta, M. C. 4963
López Pérez, A. 5560-5566
López Real, J. 2931
López-Rodas, G. 2117
López Soria, S. 3099
Lord, E. 588
Lord, E. I. 3642
Lordkaew, S. 7650
Lorences, E. P. 830, 8447
Lorenz, F. 529, 7486
Lorenz, K. 1261
Lorenzen, B. 2082
Lorenzetti, M. 3919, 6631
Lorenzini, G. 559, 3974, 6328
Lorenzo, C. de 373, 8510-8511
Lorenzo, G. de 8701
Loretan, P. A. 3691, 4495
Loreto, F. 3817, 8523
Lörz, H. 118

Losada Cortiñas, E. 5574
Lösch, R. 1480, 4840
Loshakov, V. G. 263, 4816
Losso, M. 4654
Lott, J. N. A. 7071
Lotz, L. A. P. 1130
Lou, C. H. 188
Lou, S. S. 2629
Loučka, Z. 1755
Loughman, B. C. 1359
Louis-Alexandre, A. 3324
Loukides, C. A. 2120
Loureiro, B. T. 5548
Loures, E. G. 939
Lovato, P. E. 1056
Love, S. L. 5181, 8568
Lővei, I. 2475
Lovett, J. V. 8132
Loveys, B. 3743
Low, C. S. 382
Low, P. S. 2186, 5006, 6664
Lowenberg-DeBoer, J. 7557
Lower, W. R. 4821
Lowery, B. 6464
Lownds, N. K. 3585
Loynachan, T. E. 2799
Lozano, J. C. 8596
Lozhkina, S. V. 645
Lozovaya, V. V. 1864, 4577, 8705
Lu, B. 5637, 6325
Lu, C. R. 6345
Lu, H. S. 8154
Lu, J. L. 1646, 6968
Lu, L. Y. 1200
Lu, N. 7454
Lu, R. 929, 4901, 4954
Lu, R. K. 5636
Lu, S. H. 2013
Lu, T. G. 3445
Lu, W. L. 3955
Lu, W. Z. 2996
Lu, Y. 7644
Lu, Y. C. 5913
Lu, Y. G. 6556
Lu, Y. T. 221
Lu, Z. J. 6969
Lu, Z. M. 2961
Lubag, A. J. M., Jr. 4887
Lübben, S. 3565
Lubet, E. 2091, 2096
Lucas, M. M. 8510-8511
Lucas, W. J. 3113, 4858
Luchsinger, L. A. 765
Lucque, G. 4295
Lucretti, S. 1339
Lüdeke, F. H. 2345
Ludlow, M. M. 6611, 6613, 7460-7461, 7463, 7577-7580, 8484
Ludwig-Müller, J. 5592
Lueschen, W. E. 1587, 3459, 4209, 4211
Lueschen, W. G. 4166
Luethy, M. H. 5050
Lui, S. X. 6123
Lukach, J. R. 2539
Lukashenok, Z. N. 6855
Lukashévich, N. P. 4300, 4317
Lukaszewski, K. M. 1633
Lukin, L. Yu. 6326
Lukin, S. V. 4430, 8530
Lukipudis, S. 4460
Lukow, O. M. 8032
Luk'yan, L. S. 6002
Luminis Pty Ltd. 2530
Lumsden, P. J. 553
Luna, B. 4245
Luna, C. M. 4795
Luna, J. M. 574
Lund, S. 8115
Lundborg, T. 322, 4016, 6406, 8123
Lunnan, T. 1118
Luo, A. N. 3307
Luo, H. F. 2013
Luo, R. T. 3366
Luo, S. G. 3470
Luo, S. Z. 3188
Luo, W. H. 2495
Luo, X. M. 5753
Luo, X. Y. 2809
Luo, Y. J. 5089
Luo, Y. K. 3362, 8213
Luo, Y. M. 4735
Lupu, C. 3738
Lupu, G. 3738
Lupuşanschi, I. 2047
Lur, H. S. 8273
Luthar, Z. 3778, 3780
Lüthen, H. 4082
Lüthi, E. 4022
Luthra, J. K. 8035
Lütke Entrup, E. 2976
Lutman, P. J. W. 2982, 8671
Luxová, M. 3293
L'vov, N. P. 3172
Lwin, L. 1895
Lyashchenko, A. I. 6260
Lyaskovskiĭ, M. I. 1395, 1414
Lygin, A. V. 5458
Lynch, D. V. 94
Lynch, M. A. 6165
Lynch, P. T. 234, 906
Lyndina, T. E. 1335
Lyndina, T. Ye. 1335
Lyngby Christiansen, S. P. 445
Lyngstad, I. 5505, 7225
Lynn, D. G. 1880
Lysova, I. N. 7202
Lyubimov, V. Yu. 7064
Lyutenko, V. S. 8069
Ma, B. L. 114, 123, 2538, 2540, 3228, 5501-5502
Ma, C. H. 6132
Ma, C. Z. 1193
Ma, G. Y. 6286
Ma, G. Z. 6382
Ma, H. 6382
Ma, H. L. 4176
Ma, H. S. 4108
Ma, H. T. 7454
Ma, J. F. 4136, 8308
Ma, J. H. 677
Ma, L. G. 4881
Ma, Q. F. 5012, 5203
Ma, R. H. 5756
Ma, Y. H. 5748
Ma, Z. H. 7454
Maag, W. 2933, 6004
Maas, E. V. 1201, 5469-5470
Maas, S. J. 5712-5713, 7214
Maas-Kantel, K. 7660
Maate, G. O. 5572
Mabesa, L. B. 4887
Macagni, H. J., Jr. 285
McAndrew, D. W. P. 720
McArthur, D. A. J. 2949, 4489
Macas, B. 735
McBee, G. G. 8290
McBlain, B. A. 7520
McBride, W. D. 976
McBurney, T. 2237
McCaffery, S. 1035
McCaig, T. N. 4743
McCann, I. R. 5200
Maccarone, H. 2803
Maccarrone, M. 5896, 7550
McCarty, R. E. 5047
McCauley, G. N. 4225
McCauley, J. D. 5236
Macchia, M. 7695
McClellan, D. 5276
McClenahen, J. R. 1533
McColl, J. G. 1437
McCollum, R. E. 6134
McConkey, B. G. 3180, 3903-3904, 4728
McCord, A. K. 8299
McCormick, R. A. 4056
McCown, B. 6131
McCown, R. L. 3725, 6046
McCoy, A. 3693
McCue, K. F. 2286
McCullagh, S. 1125, 3623
McCullough, D. E. 4198, 8305
McCully, M. E. 4876
McDavid, C. R. 6439
Macdonald, A. F. 4820
McDonald, D. 3509, 8365, 8386
McDonald, M. B. 6667
McDonald, M. B., Jr. 562, 6746
MacDonald, N. 1125
McDonnell, E. 8122
McDougall, G. 4550
McDougall, G. J. 2966
Macduff, J. 8769
MacDuff, J. H. 8414
MacFall, J. R. 5771
MacFall, J. S. 5770-5771
McFarland, J. E. 5684
McFarlane, C. 4989
McFarlane, D. J. 7938
McFarlane, N. A. 7963
Macfie, S. M. 2030
McGahuey, M. L. 6082
McGee, D. C. 991
McGeehan, G. 998
McGill, W. B. 3042
McGowan, M. 7182
McGrain, A. K. 2779
McGrath, S. P. 3560, 6682
McGregor, D. I. 8676
McGuire, C. F. 3924
Machado, J. R. 2182
Machado, S. 1988
Machaj, Z. 4432
McHardy, P. D. 2191
Machelett, B. 5202
Machold, O. 8431
Macias, F. A. 6959
Maciel, M. J. Q. 426
McIlhenny, R. C. 4637
McInnes, K. J. 430
McIntosh, C. A. 2212, 5792
McIntosh, L. 2358, 6091
McIntosh, M. S. 6086
McIntyre, B. D. 4973
McIntyre, H. C. H. 6351
MacKay, A. L. 7642
Mackay, G. R. 2941
McKay, H. V. 4572
Mackenbrock, U. 7670
Mackender, R. 87
McKenney, M. S. 577-581
MacKenzie, A. F. 4844, 4979, 6413
Mackenzie, C. J. 7731
McKenzie, D. C. 1818
McKenzie, K. S. 4121, 4125, 8238
Mackenzie, S. L. 1860
Mackie-Dawson, L. A. 3227
McKinion, J. M. 5235, 7771
Mackintosh, R. W. 7928
Macklin, B. 360, 515
Macklin, W. 360, 515
McKnight, T. D. 2774
MacKown, C. T. 128, 652, 3028
McKyes, E. 6463
McLachlan, D. C. 5484
McLean, K. S. 1832
McLeod, A. R. 78
MacLeod, D. A. 1818
MacLeod, J. A. 4014, 4231
McLeod, J. G. 1377
McMaster, G. S. 2042, 7215
McMichael, B. L. 1825, 3713, 3851, 3878, 8622, 8628
MacMillan, J. 8185
McMullan, P. M. 641, 6378
McMullen, M. D. 2895
McMurtrey, J., III 2194
McMurty, J. P. 6093
McNabb, H. S., Jr. 2799
MacNicol, P. K. 8139
McNulty, A. K. 2219
McPherson, A. 5138
McPherson, R. M. 4235, 5730
McQueen-Mason, S. 3827
McRae, D. C. 8546
Macrì, F. 6724, 7604
MacRobbie, E. A. C. 4662
MacTavish, D. C. 2189, 5763
McVay, K. A. 7316, 8157
McVetty, P. B. E. 464, 475, 3752, 8032
Macwan, J. J. 8373
Madalgeri, B. B. 4498
Madamanchi, N. R. 2213
Madden, R. F. 162
Maddonni, G. A. 5258
Maddox, J. J. 7555
Maddux, L. D. 2596
Mader, T. L. 1907
Madhavan, S. 2400
Madhu Bajpai 3321
Madison, J. T. 803
Madore, M. A. 355, 1728
Madramootoo, C. A. 8349
Maduakor, H. O. 2601, 3695, 4505
Madyara, S. M. 8448
Mae, T. 891, 4925, 5444, 5653
Maeda, E. 4634
Maeda, J. A. 2134
Maeda, K. 6708
Maertens, C. 3972
Maeshima, M. 1723, 2951, 3816, 5243
Maevskaya, S. N. 3758, 6982, 8687
Magadum, A. B. 6794
Magalhães, A. F. 6885
Magalhães, J. C. A. J. de 1617
Magalhães, J. R. 181
Magallanes-Estala, A. 3412, 6600, 6616
Magdoff, F. 6426
Magdy, M. 8080
Maggioni, A. 8097
Maghalhães, E. G. 6885
Magill, C. W. 8237
Magnolato, D. 5757
Magomedov, I. M. 3712, 8616
Magomedova, L. A. 8056
Maguire, J. D. 3554
Mahadevappa, M. 5645, 8251, 8261, 8263
Mahadkar, U. V. 2265, 2374, 2872, 4383, 7664
Mahajan, A. 4551
Mahajan, A. G. 6700
Mahajan, N. V. 6601
Mahajan, R. 3938
Mahajan, R. K. 1580
Mahajan, V. 755, 6412
Mahalle, S. S. 4366
Mahan, J. R. 7753
Mahanta, T. C. 5622
Mahapatra, P. K. 5112, 5718
Mahara, A. 4898-4899
Mahatim Singh 5413
Mahboob Ali 3789
Mahdavi, G. 2319
Mahdi, A. A. 2798, 5775
Mahdi, M. A. 3899
Mahendra Singh 683, 4051
Maheshwari, M. 8477
Maheswaran, M. 4939
Mahey, R. K. 5479
Mahgoub, G. M. A. 7310, 7371
Mahipal Singh 1273
Mahlberg, P. G. 438
Mahler, K. A. 1857-1858
Mahler, R. L. 3148, 4569, 5424
Mahmood, A. 1993, 6481
Mahmood, J. A. 7078
Mahmoud, A. 2006
Mahmoud, S. K. 2462
Mahmoud, S. M. 2796
Mahrous, M. A. 2462
Maia, I. G. 2182
Maĭchokina, R. M. 2027
Maidl, F. X. 1906
Maillard, A. 7698
Maillet, I. 2288
Maimon, E. 3318
Maindonald, J. H. 1340
Maiorana, M. 7, 3044
Maĭstrenko, O. V. 1197
Maitani, T. 2643
Maity, P. K. 480
Maity, S. P. 6488
Maity, T. K. 5076
Majdi, H. 2131
Majewska-Sawka, A. 2290, 5932
Majid, A. 184, 845, 6481, 6491
Major, D. J. 40, 4035
Major, I. 5080
Majumdar, D. K. 6638
Makanjuola, W. A. 3582
Makarova, T. I. 1764

Makeev, A. N. 8585
Makeev, A. V. 3679, 7922
Makeri, E. E. 5700
Makharova, L. A. 5074
Makhdum, M. I. 1743, 5232
Makino, A. 5444
Maknickienė, Z. 6817
Makowiecki, J. 4485
Makowski, N. 7774, 7795, 7827
Makowski, R. M. D. 6278
Maksimov, G. B. 3185, 4669, 8063
Maksymiec, W. 8444
Makundi, D. J. 8694
Malarvizhi, P. 6521
Malathi, N. 7834
Malavolta, E. 2234, 4138
Malawi, Makoka Agricultural Research Station 2412
Malek, L. 1037
Malewar, G. U. 209, 4118, 6963, 8489
Malhi, S. S. 720, 730, 2541, 3230, 4813, 4915, 5506
Malhotra, N. 7781
Malhotra, O. P. 4358, 5854, 7655, 7783
Malhotra, V. V. 3267
Mali, A. L. 5860, 7051
Mali, B. B. 502
Mali, O. P. 5860
Mali, P. C. 227
Malihov, R. G. 8705
Malik, B. A. 8488
Malik, C. P. 2327, 3714-3715, 4079, 5032, 6036
Malik, C. V. S. 6532
Malik, D. 6291
Malik, D. M. 6628
Malik, H. P. S. 7447
Malik, J. P. 1290
Malik, K. A. 376, 5146
Malik, K. B. 4626
Malik, N. J. 1805
Malik, R. K. 640, 644, 953, 1218, 3926, 4174, 4530, 5429, 8244, 8492
Malik, R. S. 3926, 7177
Malik, S. S. 6532
Malik, Y. S. 5939
Malik, Z. 178
Malingreau, J. P. 572
Mališauskas, A. 7911
Maliwal, P. L. 5327, 6076, 8021
Malkin, S. 488, 1682
Mallaber, C. A. 1865
Mallah, A. N. 688
Mallaiah, B. 7431-7432
Mallapa, M. 7445
Mallarino, A. P. 1503-1504, 4057
Mallen-Cooper, J. 7977
Mallett, J. E. 4876
Mallick, U. C. 6776
Mallikarjun, S. 6688
Mallorca, R. 8474
Malm, N. R. 4529
Malmberg, R. L. 2062
Maloba, W. E. 2538, 2540
Malode, R. V. 877
Malone, M. 1426, 1690, 5348
Malone, S. R. 4779
Malthus, T. J. 7085
Malviya, P. K. 8686
Małysowa, E. 7231
Mama, G. B. 1560
Mamaril, C. P. 853, 5638, 6519
Mamba, Z. I. 8384
Mambelli, S. 295
Mamicheva, N. N. 1768
Mamo, T. 1996-1997
Mamun, A. A. 3109
Mamushina, N. S. 6387
Mamykina, S. S. 6340
Manake, B. S. 6269
Mananlo, D. D. 4681
Mancha, M. 454
Manchanda, J. S. 7588
Mandal, A. B. 3913, 7147
Mandal, B. B. 6823, 7055
Mandal, B. K. 516, 1742, 1742, 5867, 6823, 7055
Mandal, L. N. 5423
Mandal, N. N. 30, 3371, 6494
Mandal, R. 859
Mandel, R. M. 6067
Mander, L. N. 5278
Mandkhan, K. 8352
Mandolino, G. 5993, 8538
Manev, M. 6265-6266
Mangal, J. L. 1808, 4453
Mangan, C. L. 7097, 7973
Mangat, B. K. 949-952
Mangataev, Ts. D. 2074
Mangge-Nang, M. A. 5084
Mangla, B. 7665
Mani, S. 7471
Manickam, G. 1898, 2370, 5320
Manickasundaram, P. 3784
Maniruzzaman, A. F. M. 16
Manjarrez-Sandoval, P. 6614
Manjit Singh 4382
Manjunath, A. 3005
Manjunath, M. V. 6801
Manjunath, N. 2742
Manjunath, S. 3920, 6764, 7445
Manjunath, T. V. 4171
Manjunatha, M. 6034
Manjunatha Hebbara 2805
Mankar, A. N. 3790
Mankar, B. T. 5248
Mankar, P. S. 1669
Manly, C. J. 2768
Manna, G. B. 4893, 6482, 6500-6501
Mannan, M. A. 5372
Manning, W. J. 7649
Manohar, S. S. 7051, 7474
Manoni, A. 2206, 2231
Manonmani, K. 5787
Manrique, L. A. 2302, 7634
Mansfield, T. A. 1337, 1918, 2572, 4562
Mansour, F. 8080
Manteuffel, R. 6824
Manthey, F. A. 2569
Manthey, R. 3169
Mantovani, E. 1932
Mantovani, G. 1761
Manuil'skiĭ, V. D. 5408
Manyam, D. S. 7407-7408
Manzano, P. 8577
Manzur, J. 63, 82
Mao, D. 2139
Mapelli, S. 8254
Maqsood, S. 5313
Maracchi, G. 260
Marais, D. J. M. 8360
Marais, J. N. 4845
Maralihalli, G. B. 6452
Marambe, B. 3429, 5691
Marani, A. 4486, 5229, 6877
Maranville, J. W. 5602, 7366
Marashy, I. 60
Marc, J. 6670
Marchand, P. 81
Marchenko, G. N. 598
Marchetti, M. A. 8237
Marchi, L. de O. S. 2134
Marco, G. di 3817
Marcone, M. F. 6103
Marconi, E. 2251
Marcos Filho, J. 4332
Marcu, T. 79
Marcus, D. 5899
Marcussen, J. 3531
Marder, J. B. 6388
Maredia, K. M. 7339
Marek, V. 6311
Marentes, E. 8108
Maretzki, A. 4633
Marfà, V. 8701
Marfo, K. O. 6703
Margolis, E. 3694
Margolis, J. 699
Mariani, G. 7986, 7997
Mariano, M. I. A. 4287
Maribona, R. H. 509
Mariga, I. K. 7643, 8448, 8633
Marigo, G. 1720
Marikar, F. 7910
Marin, A. R. 7415
Marin-Laflèche, A. 2288
Marinelli, G. 1661
Marinescu, M. 38, 76
Marinetto, J. 717
Marinez, O. 1850
Marino, B. D. 6346
Mariño, G. B. 6759
Markert, B. 7112
Markhart, A. H., III 1714, 2238
Markina, L. G. 6914
Marko, F. 4709
Markova, I. V. 4669, 5597, 7341
Markova, V. E. 95
Markovich, T. 8556
Marks, E. I. 2035
Markus, A. 135
Márkus, F. 5391
Markwell, J. 329, 1688
Märländer, B. 7694
Marnett, L. J. 4995
Marol, C. 1124
Marouelli, W. A. 331
Marouf, B. A. 7078
Marquard, R. 2416, 5255
Marquardt, J. 6441
Márquez Berber, S. R. 8317
Marra, M. 8183
Marrero, V. 1719
Marschner, H. 1066, 1528, 2031, 2110, 2609-2610, 2646, 2887, 2911, 3438, 3507, 3601, 4088, 4320, 4338, 4862, 6751, 7180, 7573
Marsh, B. H. 6648, 7332
Marsh, D. 1046
Marsh, S. E. 1948
Marshak, A. L. 4674
Marshak, D. R. 169
Marshak, G. 8556
Marshall, A. G. 2262
Marshall, B. 3683, 7728
Marshall, C. 592
Marshall, D. S. 7992
Marshall, F. 6792
Marshall, G. M. 2978
Marshman, R. W. 7645
Marstorp, H. 1291
Marten, I. 1054
Martens, D. C. 778
Marti, H. R. 4499, 7734
Martí Ezpeleta, A. 8072
Martignone, R. A. 1007
Martin, B. 1433
Martin, C. 2307, 8773
Martín, D. 7890
Martin, D. J. 5343
Martin, D. L. 1299
Martin, E. 3300
Martin, F. A. 4631
Martin, F. G. 3039
Martin, G. 34
Martin, H. W. 7716
Martin, J. K. 2480
Martin, L. 1738
Martin, M. 70, 7532
Martin, M. N. 8166
Martin, M. W. 2925, 5181
Martin, P. 4320, 7650
Martin, R. A. 2549
Martin, R. C. 4037, 5081, 8449
Martin, R. J. 3135, 3682, 6395, 7249, 7520
Martin, T. J. 6370
Martin, W. D. 6587
Martinez, C. A. 1155
Martínez, J. 2847
Martínez, J. A. 7740
Martínez, M. 3670
Martinez, V. 8143
Martinez, W. D. 7334
Martínez B., F. 8193
Martínez-Cortina, C. 2683, 4920
Martínez-García, J. F. 2253, 3586, 8473
Martini, F. 7775
Martini, N. 4597
Martinoia, E. 1474, 1483, 2563, 6392
Martins, A. P. 7360
Martins, C. de S. 4137
Martyn, W. 2739
Martynov, I. V. 7074
Marunov, S. K. 4269
Marur, C. J. 2330
Maruthi, V. 1090
Marvel, J. N. 4251, 5767
Marwaha, T. S. 8232
Marzi, V. 2322
Masajo, T. M. 7433
Masand, S. S. 7298
Mašauskas, V. 4812
Mascarenhas, H. A. A. 3468, 7528, 8156
Mascart, P. 2124
Maselli, F. 260, 2716
Mash, S. J. 1756
Mashhor, M. 3375
Mashiringwani, N. A. 7186
Mask, P. L. 7132
Mašková, I. 2075
Masle, J. 5344
Maslobrod, S. N. 3319
Maslov, G. G. 1603
Mason, H. S. 997
Mason, M. G. 4711-4712
Mason, S. C. 975
Masood Ali 3616
Masoud, M. M. 3133
Massardo, F. 663
Masscheleyn, P. H. 7415
Massé, J. 3054
Masse, J. 2052, 3183
Mastro, G. de 2322
Mastrorilli, M. 252
Masuda, A. 6831
Masuda, Y. 5865, 7662
Masutani, T. 1126-1129
Matai, B. H. 2463, 3156
Matar, A. 7060
Mateescu, I. 147, 3657, 7720
Mateos, L. 1172
Materechera, S. A. 3084, 6181
Materon, L. A. 7108
Mathela, C. S. 693
Matheny, T. A. 2924
Mather, D. E. 2548, 3580
Mathew, G. 6528, 7422
Mathew, J. 8219
Mathew, P. B. 202
Mathews, H. 6881
Mathews, H. V. 5916
Mathieu, C. 628
Mathis, J. N. 1657
Mathur, A. 3755
Mathur, M. 8418
Mathur, P. S. 1896
Mathur, S. 3515
Mathur, V. K. 930
Mathur, Y. K. 6076
Mathurin, P. 404
Mathuva, M. 1489
Mati, R. 1438
Matijašević, M. 2460
Matile, P. 8127, 8673
Matilla, A. 2256, 4395
Matiwade, P. S. 4388, 8481
Matocha, J. E. 6582
Matoh, T. 5908-5909
Matos, F. S. A. 2763
Matranga, G. 4461
Matringe, M. 7608
Matsubara, N. 3613
Matsubara, S. 3696
Matsuda, K. 4936
Matsuda, Y. 4774, 6295
Matsui, H. 5079
Matsui, K. 4244
Matsuki, T. 5192
Matsumoto, K. 3377
Matsunaga, K. 6533
Matsuno, R. 8420
Matsuoka, M. 7889
Matsushima, H. 6997
Matsushita, H. 4408
Matsuura, A. 969
Matsuura, H. 5196
Matsuura-Endo, C. 1723
Matsuyuki, H. 1540
Matsuzaki, S. 1059, 4410, 4412, 5915

Mattana, M. 4754
Matte, A. D. 6779, 6924
Matter, K. 5782, 5823
Matthäus, E. 59
Matthews, K. J. 5343
Matthews, R. B. 6410
Matthys-Rochon, E. 6461
Mattiasson, B. 1942
Mattjik, N. A. 8584
Mattoo, A. K. 3022
Mattos Junior, D. 1542
Mattson, L. 2730
Mattsson, L. 7133
Mattsson, M. 322, 4016, 8123
Matula, J. 2555, 8146
Matus T., I. 3884
Matuz, J. 7174
Matveeva, N. S. 7095
Matyagin, S. V. 4730
Matyka, S. 2740
Matyn, M. A. 5821-5822
Matysiak, J. D. 1945
Mauersberger, V. 98
Mauk, C. S. 4994
Mauney, J. R. 1171, 7772
Maurel, C. 1882
Mauritius, Mauritius Sugar Industry Research Institute 7098
Mauritius, Tobacco Board 8813
Mauromoustakos, A. 8218
Maury, P. 5737
Maurya, B. R. 8478
Maurya, D. M. 3360, 3363
Maurya, M. L. 1872
Mavarkar, N. S. 4520
Mavi, G. S. 3523
Mavi, H. S. 4147, 4154
Mawson, B. T. 5468, 5824, 8435
Maxted, N. 6745
May, K. W. 2547, 6369
May, M. J. 5379
Mayeux, A. 8370
Mayeux, H. S. 2064, 4779, 6346
Maykuss, F. 2940, 6853
Maynard, E. T. 1067
Mazel, Yu. A. 3292
Mazgalska, W. 6403-6405
Mazin, V. V. 8540
Mazliak, P. 154, 490, 3824
Mazúr, M. 2580
Mazur, T. 2928, 7230
Mazurczyk, W. 1793
Mazurek, J. 710, 1601, 1979-1980
Mazza, G. 5387, 6085
Mazza, L. 1986
Mazza, P. 1084
Mazzanti, R. 3692
Mazzocchetti, A. 3919, 6631
Mazzocco, M. A. 1535
Mbagwu, J. S. C. 1505
Md. Zuki, I. 3376
Mead, R. 6971, 8838
Mearns, L. O. 2515
Meche, G. A. 4129
Meckenstock, D. H. 4179, 6604
Médard, R. 6013-6014
Mederos, V. R. 8730
Medford, J. I. 1324
Medico, P. del 2231
Medina, C. C. 4621
Medina, N. 3793
Medina, V. 7400
Medina Clausell, P. 6656
Medina Malagón, L. M. 7862
Medrano, H. 1965, 3558, 6088
Medvedev, A. M. 393
Medvedev, S. S. 4669, 5597, 7341
Meek, B. D. 4449
Meeks-Wagner, D. R. 1884
Meelu, O. P. 6487, 8234
Meena, R. A. 431
Meenakshisundaram, P. C. 4526
Meer, M. E. 7120
Meese, B. G. 797
Meeus-Verdinne, K. 2001, 2178
Megale, P. 7802
Mégier, J. 8803
Mehar Singh 3591, 3593, 4392, 5887, 6803
Meharg, A. A. 8770
Meharwade, M. N. 462
Mehdi, S. M. 8274
Mehdy, M. C. 4351, 5855
Mehetre, S. S. 3707
Mehl, M. 1386
Mehla, D. S. 4751
Mehmedic, Z. 4541
Mehra, R. 3968
Mehra, S. P. 7017
Mehroke, J. 3248
Mehrotra, S. C. 2612, 3596
Mehta, H. M. 8373
Mehta, N. J. 5299, 8722
Mehta, O. P. 1249, 6074
Mehta, P. M. 8373
Mehta, R. A. 3022
Mehta, S. L. 3257
Mehta, U. K. 5315
Mehta, V. S. 369
Mehuys, G. R. 6413
Mei, C. S. 8265
Mei, H. S. 4753
Mei, Z. 3728
Meidner, H. 1536
Meidzybrodzka, M. B. W. 5294
Meijer, B. J. M. 1295
Meinel, A. 7130
Meinke, H. 7815-7816
Meins, F., Jr. 489, 5292
Meinzer, F. C. 1900, 2371, 5316
Meiri, A. 163
Meirvenne, M. van 2278, 2381
Meisinger, J. J. 5555
Mejorada, C. 4681
Mekhail, G. M. 6437
Melching, J. B. 5938
Melekhov, E. I. 328
Melfi, D. 8663
Melgar, R. J. 2588
Melik-Sarkisov, O. S. 1148, 1788, 5207
Melin, P. M. 3177
Melis, A. 5514, 6386, 6718
Melkania, U. 5549
Mellado Z., M. 3884
Mello, V. D. C. 2239, 3564, 4161
Mello Netto, A. V. de 3694
Mellon, F. A. 2499
Melnikova, N. M. 1305
Melz, G. 713
Memon, A. R. 8422
Mench, M. 3300, 3631
Menchey, E. K. 6086
Menczel, L. 6960
Mendel, R. R. 4600
Mendes Ferrão, J. E. 8827
Mendis, M. H. 7429
Mendoza, A. B. 2158, 2871, 4362
Mendoza, E. M. T. 4887
Mendoza, H. A. 7737
Mendoza-Onofre, L. E. 6609, 6614
Meng, F. J. 5452
Meng, X. D. 4210, 8339
Meng, X. X. 5768
Mengel, K. 408, 595, 1386, 2109, 2639, 3134
Menon, P. K. G. 8229
Mentz, R. I. 7539
Menzhulin, G. 7964
Menzi, M. 783, 963, 3283, 6632
Merabet, B. 5832
Merckx, R. 2480
Meredith, W. R., Jr. 6025, 7750, 8602
Mergaert, P. 8519
Mergeai, G. 2964
Merkhalev, E. S. 5241
Merkis, A. I. 3185, 8063
Merkusheva, M. G. 7718
Merkys, A. 3950, 4329, 4344
Merkys, A. J. 8063
Merlo, C. 5553
Merlo, L. 7723-7724
Merten, G. H. 1909
Merwe, S. W. J. van der 6229
Merzlaya, G. E. 4725
Merzlyak, M. N. 542
Mesbah, I. I. 8614
Mescht, A. van der 2304, 5996
Mesfin Abebe 1996-1997
Meshram, M. K. 3711
Mesquita, H. A. 1546
Mestres, C. 3324
Mett, V. L. 6917
Metwally, I. O. 7616
Metz, R. 5202, 7370, 7941
Meurs, E. J. J. 4024
Mew, T. W. 6541
Meyer, A. D. 5292
Meyer, A. J. 6705
Meyer, B. 3685
Meyer, D. 5475
Meyer, S. 1748, 7685
Meyer, S. J. 5608-5609
Meyer, T. J. 6890
Meyer-Roux, J. 7953
Meynard, J. M. 2823
Miah, M. A. K. 1444
Miah, M. G. 632
Miah, M. M. U. 1914
Miah, M. N. H. 1244
Mian, A. R. 3127
Mian, M. A. R. 6322
Miao, G. H. 1639
Miao, P. R. 3387
Miao, Y. G. 2836
Miao, Y. N. 5749
Miatkowski, Z. 6230
Míča, B. 4455, 5169, 6852, 6860, 6862
Miccolis, V. 343
Miceli, F. 70, 7532
Miceli, P. 7764
Miceli, P. et al. 2317
Michael, H. 26
Michalczuk, L. 2864
Michalczyk, D. J. 2835
Michalík, I. 1393
Michałowski, C. 6044
Michalska, B. 1705, 4202, 7628
Michellon, R. 2377
Michelsen, A. 2934
Michl, J. 377
Michońska, M. 4304
Middelkoop, H. 3098
Midmore, D. J. 416, 1803, 1807
Mielniczuk, J. 1909
Mieloch, M. 5143
Miernyk, J. A. 1415, 2209, 2972
Miersch, O. 5531
Mieszkalski, L. 3553
Miflin, B. J. 5389
Miglietta, F. 2506, 2514, 2789
Miguez, F. 1495
Mihai, T. 3282
Mihăilescu, D. 38, 76
Mihajlovic, M. 3219, 5538
Mihm, J. A. 7339
Mikalajūas, J. 5328
Mikami, B. 5661
Mikhaĭlov, A. D. 393
Mikhaĭlova, G. N. 3666
Mikhaĭlova, O. I. 8751
Mikhov, M. 3602
Mikhovich, F. I. 5977
Mikkelsen, J. D. 2991, 4660
Mikkelsen, R. L. 5682
Miklas, P. N. 6749
Mikle, F. 8144
Miklovič, D. 6840, 6843
Mikolinskaya, N. M. 1132
Mikova, A. 2761, 3475
Mikova, A. G. 3476
Mikulski, W. 7238
Mikuš, M. 7645, 8207
Milani, A. 489
Milborrow, B. V. 1696, 2866, 3743
Milford, G. F. J. 5154, 7998
Milhailović, N. 2635
Milić, V. 1013
Milivojević, J. 5921
Millam, S. 4550, 6051
Millar, D. J. 4479
Miller, A. J. 1475
Miller, B. C. 6365, 8278
Miller, D. R. 2168
Miller, F. R. 8290
Miller, G. A. 2128
Miller, J. C., Jr. 2938
Miller, J. D. 7032, 7882-7883
Miller, J. E. 7551
Miller, J. F. 1838, 4559
Miller, J. R. 2245
Miller, M. H. 2647
Miller, N. R. 648
Miller, T. E. 5471
Milligan, S. B. 4631
Millner, P. 7555
Mills, H. A. 1366, 7734
Milnes, M. 3858
Miloševic, M. 6839
Milota, V. 1468
Milovanović, M. 3161
Milus, E. A. 6331
Milutinovic, V. 140
Mimouni, B. 2346
Mimura, T. 4832, 5516
Min, J. 3359, 3362, 8213
Min, S. K. 4699
Min, T. G. 1865
Minamikawa, T. 5078
Minamiura, N. 7417
Minchin, F. R. 373, 2191, 5743, 6676, 8510-8511
Minchin, P. E. 2233
Minchin, P. E. H. 5794, 8410
Mineikienė, V. 5334
Miner, G. S. 5293
Ming, C. 2014
Ming, L. 6068
Mínguez, M. I. 8439
Minhinick, J. 8747
Miniati, E. 5387
Mino, Y. 5590
Minoia, C. 961, 2020, 3919, 6631, 7996
Minor, H. C. 8331
Minski, M. J. 2056
Minx, L. 1755, 1757, 8806
Mioskowski, C. 2037
Miquel, G. 5577
Miquel, M. 2830
Miralles, D. J. 1442
Miranda, A. M. 2847
Miranda, L. C. G. de 4254
Mirecki, R. M. 2244, 5010
Miressa Duffera 1996-1997
Mirschel, W. 58-59
Mirza, M. S. 7495
Mirza, Z. I. 1527
Misaki, A. 5865
Mishoe, J. W. 4252
Mishra, A. 7028
Mishra, B. 7089
Mishra, B. B. 5668
Mishra, C. M. 7513, 8379
Mishra, D. P. 5180
Mishra, G. C. 7777
Mishra, G. L. 479, 1241
Mishra, L. K. 7410
Mishra, M. K. 8226
Mishra, M. M. 3151, 4738, 7960
Mishra, M. R. 7777
Mishra, P. 2667
Mishra, P. H. 6937
Mishra, P. K. 6854
Mishra, R. K. 649, 5433, 5880
Mishra, S. 4497
Mishra, S. D. 2079, 3948, 5145
Mishustin, E. N. 8352
Miskin, R. B. 4183
Mislevy, P. 3039
Misonne, J. F. 4431, 5927
Misopolinos, N. 1342
Misra, A. 1896, 6111, 6695, 7023
Misra, A. K. 6542
Misra, A. N. 259, 7654
Misra, D. P. 8561
Misra, J. B. 8559
Misra, J. P. 5497
Misra, L. 5392

Misra, M. 4100, 7654
Misra, N. M. 1423
Misra, R. C. 1550, 4393, 5620, 6977, 7829
Misra, R. D. 5091
Misra, S. M. 938
Misra, S. S. 5982
Misra, U. K. 6697
Missich, R. 1661
Mistrík, I. 8194
Miszalski, Z. 3994
Mitchell, C. A. 1655, 7080
Mitchell, R. A. C. 3975, 8082, 8088
Mitchell, V. J. 8082, 8088
Mitiku, D. 2018
Mitkees, R. A. 2462
Mito, N. 808
Mitra, A. K. 7151
Mitra, G. N. 6509, 6697
Mitra, J. 566
Mitra, N. 7206
Mitra, S. 4560, 5262
Mitrofanov, Yu. I. 1910
Mitrosuhardjo, M. M. 5643
Mitsuhashi, W. 5795
Mitsui, T. 4928, 4936-4937, 6549, 7418, 7428, 7927
Mitsunaga, T. 232, 380
Mitta, M. 4408
Mittal, J. P. 4703
Mittal, R. 4926, 4947, 7438
Mittal, S. P. 2099
Miura, K. 3367
Mix-Wagner, G. 3065
Miyakado, M. 808
Miyakawa, O. 843
Miyake, H. 1030, 4634, 8298
Miyanishi, T. 2652
Miyazawa, M. 3931
Mizoguchi, T. 1126-1129
Mizuno, A. 2252
Mizuno, K. 1889
Mizutani, J. 3167, 5134
Mjelde, J. W. 1535
M'Khaitir, Y. O. 947
Mkhonta, V. M. 8384
Mladenov, M. 3163
Mladenova, Y. I. 4090
Mlinar, R. 2460
Mlynarz, A. 8108
Mock, H. P. 5277
Mockaitis, J. 6846
Mockel, D. 2442
Mocking-Bode, H. C. M. 7290
Modak, S. B. 427
Modau, H. 5077
Model, N. S. 2097
Modestus, W. K. 1976, 6943, 8644
Modhawadia, M. M. 8369
Modi, N. D. 241, 955
Moentono, M. D. 8155
Moes, J. 726, 3893
Moffatt, B. A. 1454
Mogensen, H. L. 4877
Mogensen, V. O. 109, 4688
Moghe, P. G. 4167
Mohamad, A. S. 7078
Mohamed, A. A. G. 83
Mohamed, A. I. 1644-1645
Mohamed, A. R. A. G. 6306
Mohamed, M. F. 1073, 6760, 7646
Mohamed, S. H. 6658
Mohamedali, G. H. 1989
Mohammad, S. 1224, 4643
Mohammad, W. 3150
Mohammadi, M. 5015
Mohammed Saleem 2630
Mohamud Fauzi, H. M. 836
Mohan, J. R. 6112
Mohan, P. 7765
Mohan, R. 6499
Mohan, S. K. 5544, 5974
Mohan Singh 257
Mohana, M. N. 6785
Mohankumar, B. 4506
Mohankumar, C. R. 4511-4512, 6022, 6024
Mohanty, B. K. 5668
Mohanty, J. K. 1400
Mohanty, K. 7052
Mohanty, P. 2349, 4583, 8829
Mohanty, S. K. 7905
Mohapatra, A. K. 4160, 6517, 7383
Mohite, A. B. 4040
Mohr, H. 3018, 6987
Mohr, N. A. 4573
Mohsan Atta 4626-4627, 5313, 7884
Mohsin, M. 5677
Moigne, M. le 2196
Moinuddin 4002
Moisa, F. 437
Moĭsa, I. I. 7202
Moiseeva, L. N. 5176
Moisyadi, I. 1288
Mok, C. 1848
Mok, D. W. S. 5081, 8449
Mok, I. G. 5179
Mok, M. C. 5081, 8449
Mokete, N. 4193
Mokma, D. L. 6471
Mokrievich, G. L. 106
Mokronosov, A. T. 738, 3679, 8585
Mokrosonov, A. T. 7922
Mokry, M. 8008
Mokwunye, A. U. 2597, 2722-2723
Mol, J. N. M. 2355
Mòl, R. 6461
Molchanov, M. I. 8432
Moldau, H. 1076
Molen, L. G. van der 8695
Molenda, M. 3954
Moletti, M. 7384
Molina-Cano, J. L. 744, 3449, 4028
Molina-Moreno, J. C. 6609
Moll, R. H. 7293, 8168
Molla, A. 8112
Møller, B. L. 6383-6384
Møller, E. 5489
Møller, I. M. 8579
Moloshok, T. D. 1789
Molotkovskii, Yu. G. 165, 6837
Momčilović, V. 3942
Momotani, E. 3020
Monacelli, B. 3774
Moncada, E. 4179
Mondal, A. K. 5423
Mondal, M. H. 632
Mondal, S. S. 480
Monde, K. 4447
Mondharan, M. L. 2364
Monem, A. M. A. 3927
Monem, M. A. 7987
Monfar, M. 4313
Mongia, A. D. 7308, 8222
Monje, O. 3853
Monma, M. 5008
Monopoli, F. P. 4334
Monotti, M. 7451
Monroe, G. E. 3603
Monsalve-Gonzalez, A. 3969, 7162
Montagu, M. van 3400, 8519
Montague, M. J. 5483
Montalbini, P. 2490
Montalti, P. 1833
Montavon, P. 1153, 5189
Monteith, J. L. 2171-2172
Montenegro, A. 6306
Montesinos, C. 8776
Montesinos, E. 3449
Montevecchi, P. 1986, 3919
Monti, L. 1724
Monti, L. M. 1044
Monti, M. 8667
Monti, M. C. 2937
Montoya, G. 1759, 5153
Montoya C., L. 7521
Monyo, E. S. 1594, 4962
Moody, A. 7959
Moody, D. B. 7601
Moody, K. 873-874
Moog, P. R. 7660
Moomaw, R. S. 1907
Moon, C. J. 917
Moon, C. S. 4122
Moon, H. G. 4854
Moon, H. P. 4123
Moon, Y. H. 2103-2104, 5727, 6650
Moonmaw, R. S. 277
Moore, B. D. 1712, 1928
Moore, K. B. 5586
Moore, P. J. 6165
Moore, R. 3318, 5968
Moore, T. S., Jr. 443, 5242, 5244
Moorthy, B. T. S. 879, 4893
Mora-Aguilar, R. 6609
Moradin, A. M. 8296
Moraes, E. A. 4341
Moraes, M. H. D. 6440
Moraga P., E. 3978
Moraghan, J. T. 338, 2259, 5923, 6816
Moralejo, M. A. 4028
Morales, D. 5995
Morales, F. 3261
Morales, O. 848
Moran, J. 7978
Moran, M. S. 2965
Morandi, E. N. 1007
Morard, P. 3972, 5900
Mordvintsev, M. P. 4230
More, N. B. 1271
More, P. R. 5891
More, S. M. 4184, 8486, 8736
More, V. D. 4641
Moreau, R. A. 3766
Moreira, M. A. 1000
Moreira, R. A. 8516
Morejohn, L. C. 3835
Morel, J. L. 3631, 4862
Moreland, D. E. 5684
Morelock, T. E. 3581
Moreno, F. 3278
Moreno, J. C. 5677
Moreno, R. M. B. 2355
Moreno, U. 1155
Moreno-Gonzalez, J. 5574
Morey, D. D. 4806
Morey, D. K. 3807, 4275
Morgado, L. B. 4038
Morgan, B. C. 5463
Morgan, D. G. 2995
Morgan, J. A. 70, 2042, 4743
Morgan, J. M. 2492
Morgan, P. 6415
Morgan, P. W. 1520, 3432, 5224, 5614
Morgun, V. V. 3932
Mori, H. 4379, 5079
Mori, K. 1575, 8783
Mori, N. 5928
Mori, S. 4972, 4999
Moridis, G. J. 770
Morimoto, S. 3251
Morishige, D. T. 3244, 7596
Morison, J. 8554
Morison, J. I. L. 914, 2516
Morita, K. 6396
Morita, S. 805, 8065
Morita, T. 4927, 7418, 7927
Morita, Y. 5661
Moriya, K. 6533
Morizaki, T. 7913
Morlans, J. D. 4795
Mornet, R. 7608
Mornu, M. 2119
Morohashi, J. 189, 1615
Morohashi, Y. 8774
Morokuma, M. 1081
Moroni, J. S. 6293
Morot-Gaudry, J. F. 4861, 4871
Morozova, I. S. 6002
Morpurgo, G. 8789
Morpurgo, R. 8789
Morré, D. J. 1636, 1647, 1700, 5058, 8342
Morré, D. M. 1700
Morrice, L. A. F. 3227
Morris, A. K. 179
Morris, C. E. 4495
Morris, C. F. 6272
Morris, D. A. 5225
Morris, D. J. 3110
Morris, P. J. 6225
Morris, V. J. 4831
Morrison, I. N. 2978
Morrison, J. E., Jr. 7450
Morrison, M. J. 3749, 6975
Morrison, R. J. 4035, 6945
Morrison, W. R. 7282
Mortaro, E. 961
Mortensen, G. 109
Mortensen, J. V. 5517-5518
Mortensen, K. 6278
Mortensen, L. 1439
Mortley, D. G. 3691, 4495
Morton, J. B. 7555
Morton, J. D. 266, 4742
Mortreuil, J. C. 2821
Mortvedt, J. J. 1338, 5682, 7330
Morvan, C. 4539, 7776, 8630
Mosaad, M. G. 2462, 3121, 3133
Mosca, G. 8, 301, 670
Moscheni, E. 7695
Moseholm, L. 1439
Moser, E. B. 4522
Moses, A. 4149, 7437
Moshe, R. 6105
Moshnyakov, N. A. 4469
Mosienko, N. A. 1506
Mosier, A. R. 625
Mosjidis, C. O'H. 3494
Mosjidis, J. A. 8107, 8442
Moskalenko, A. A. 6833
Moskalenko, N. P. 3288
Mosley, A. R. 5181
Mosolov, V. V. 6299, 7178
Moss, J. P. 1103
Mosseddaq, F. 8302
Mostafa, M. A. 2462
Mota, F. S. da 275, 2337
Mota, M. G. da C. 1830
Motavalli, P. P. 7318
Motes, D. R. 3581
Motiramani, D. P. 7036
Motomatsu, T. 1572
Motomura, H. 1557-1558
Motto, M. 6450
Motyčková, R. 1122, 2287, 2909
Motzo, R. 8073
Moubarak, Z. M. 7600
Moudrý, J. 3211
Moughli, L. 8017
Moulin, A. P. 1230
Moumou, Y. 5295
Moura, E. G. 1975
Mouraux, D. 164, 177, 2088
Moureaux, T. 4599
Mouri, H. 5866
Moursy, H. A. 5131
Moustacas, A. M. 7540-7541
Moustakas, M. 655
Movillon, M. 873
Moyle, T. N. 3135
Mozafar, A. 5742, 8201
Mozhaeva, L. V. 6167
Mozingo, R. W. 8387
Mpofu, B. 8363
Mrkovački, N. 1013
Mrówka, M. 702
Mróz, A. 1601
Mt. Pleasant, J. 575
Mu, M. H. 6955
Mu, S. H. 4285
Muazu, S. 6255
Mucci, F. 8030
Muchena, S. C. 8633
Muchová, Z. 1402, 6239
Muchow, R. C. 3725-3727, 6045-6046, 6580, 6613, 7464-7466, 7690
Mück, K. 5354
Muday, G. K. 327
Muddemmanavar, S. S. 5679
Mudrik, V. A. 3501
Muehlbauer, F. J. 1744
Mueller, J. P. 4067
Mueller, T. C. 4131
Muench, D. G. 742, 5525
Mugwira, L. M. 7333
Muhammad, N. 7668
Muhammad, S. 3406

Mühling, K. H. 2109
Muir, C. E. 6365
Muirhead, W. A. 2663
Mujer, C. V. 4158
Mujica, R. 8730
Mukai, K. 4996
Mukand Singh 4724, 6767
Mukandutiye, M. 399
Mukerji, K. G. 3206, 3330, 3723
Mukerji, N. 3701
Mukhamedov, N. S. 1816, 3706
Mukhdum, M. I. 8626
Mukherjee, A. K. 5144
Mukherjee, I. 1736
Mukherjee, S. 6787
Mukherji, S. 5094, 6777
Mukhi, A. K. 208
Mukhopadhyay, B. 6777
Mukhopadhyay, S. K. 4493, 6011
Mukhtar, S. 5543
Mukoko, O. Z. 8448
Mukta Dhingra 3732, 3761
Mulay, A. J. 3592, 5400
Mulcahy, D. L. 8186
Mulcahy, P. 412
Mulchi, C. L. 299, 1253, 1887
Mulder, A. 2939
Mulders, M. A. 1949
Mulkey, W. A. 8595
Mulla, D. J. 2448, 8007
Mullen, L. A. 1457
Müller, A. 3115, 3200, 3565, 4837
Muller, B. 993
Müller, J. 2911, 3896
Müller, K. 3672
Müller, M. 3505
Müller, M. L. 6474
Müller, R. 1390, 6254, 7321
Müller, S. 47
Müller, Z. 4575
Mullet, J. E. 997
Mullinix, B. G., Jr. 1671
Mullins, C. A. 7377
Mullins, G. L. 1183, 7768
Mulrooney, R. P. 5731
Mulvaney, R. L. 1496
Mulyadi, M. 1268
Muminović, Š. 1333
Mummert, E. 7227
Munawar Khan 8575
Munda, G. C. 6502
Mündel, H. H. 4264, 6945
Mundra, M. C. 5697
Mundra, S. L. 1089, 6782
Mundry, K. W. 5688
Muneta, P. 4482
Munetsi, M. 7643
Munirayappa, G. 7391
Muñiz, O. 4456
Munns, R. 3108, 3196, 3838
Muñoz, F. J. 8495-8496
Muñoz, R. 1058
Muñoz A., R. 4448
Muñoz-Rueda, A. 3168
Muñoz-Valenzuela, S. 6929-6930, 7793, 8648
Muntean, L. 79
Munzert, M. 1968
Murage, P. M. 1994, 2017
Murakami, A. 2551
Murakami, K. 6020
Murakami, T. 3626
Muraki, K. 5917
Murali, N. M. 450, 1598, 7801
Muralidhar, V. 6786
Muramoto, S. 6571
Murant, E. A. 4799
Murariu, D. 161
Murariu, M. 147, 161
Murata, N. 1360, 7103-7106
Murata, T. 6879
Murawa, D. 4570
Murdock, E. C. 4232
Murillo, J. M. 3278
Murison, S. D. 6475
Murkowski, A. 5461
Murofushi, N. 4933, 6396, 7200
Muromtsev, G. S. 673, 2682, 3186, 7074
Murphy, D. J. 471-472, 1046, 6068, 6967, 7067
Murphy, D. P. L. 1467, 6270
Murphy, T. R. 7524
Murray, F. 5012, 5203
Murray, F. E. 474
Murray, G. A. 4569
Murthy, B. K. 7407-7408
Murthy, K. S. N. 7852
Murthy, R. A. K. 5645
Murthy, S. K. 7855, 7857
Murty, A. V. S. N. 5623
Murty, B. S. 4588
Murty, D. S. 5690
Murty, K. S. 4150, 5663
Murty, K. S. N. 7851
Murugaboopathi, C. 2653
Murumkar, C. V. 375, 5890
Murwandono 1263-1264, 1267, 4632
Musa, G. L. C. 6929-6930, 7793, 8648
Mushi, C. 3560
Mushi, C. S. 1065
Mushonga, J. N. 1594
Mushtaq, R. K. 2436
Musick, J. T. 7999
Musienko, N. N. 686
Mustafa, M. 7431-7432
Mustafa, Y. R. 3271
Mustafina, A. R. 4081
Muszyński, A. 1641
Mutalov, A. X. 6039
Mutert, E. 1306
Muthiah, M. 4224
Muthuikrishnan, P. 3796
Muthukrishnan, P. 1270, 6539, 7020
Muthukrishnan, S. 743
Muthuvel, P. 4214
Muto, H. 2951
Muto, S. 2353
Mutsaers, H. J. W. 7900
Mutters, R. G. 358
Muyzenberg, E. van den 5287
Muzquiz, M. 7682
Muzzy, A. 5365
Mwangi, W. 2019, 2417
Mwazi, R. 7296
Mwenda, F. F. 8361
Myachin, F. V. 4077
Myaka, F. A. 6826
Mydin, K. K. 7663
Myers, C. W. 6368
Myers, J. R. 6750
Myers, O., Jr. 7522
Myers, P. N. 803
Myers, R. J. K. 4062-4063, 5643, 7315
Myneni, R. B. 4674
Mynkin, N. V. 6954
Myscich, E. M. 532
Myuller, Z. 3813
Na, G. Q. 5747
Na, S. Q. 6304
Nabiev, S. M. 8608
Nable, R. O. 7148
Naceur, M. B. 7658
Nachmiass, V. T. 4797
Nadagoudar, B. S. 6034
Nadeem, M. A. 2257
Naderman, G. C. 6134
Nadia, Y. A. 5722
Nadler, A. 6432
Naeem-ud-Din, M. 6520
Năescu, V. 133
Näf, W. 2394
Nafziger, E. D. 3127, 6322
Nagabhushana, G. G. 5395, 6034
Nagabhushanam, G. V. S. 2811, 5785
Nagahashi, G. 6875
Nagai, K. 5671
Nagai, T. 197
Nagamura, T. 2778
Nagano, Y. 8420
Nagaraj, G. 1239, 2974
Nagaraj, S. T. 1598
Nagarajan, K. 7557
Nagarajan, S. 3178, 3192, 5201
Nagaraju 5645
Nagaraju, A. P. 4593
Nagarathna, K. C. 5701
Nagargoje, S. R. 4640
Nagasawa, Y. 189, 1615
Nagashima, S. 5928
Nagata, N. 1126-1129
Nagata, T. 1883
Nagato, Y. 2687
Nagda, B. L. 7475
Nagdeve, M. B. 7751
Nagem, T. J. 4254
Nageswara Rao, R. C. 6712
Naghiu, A. 264
Nagle, M. E. 4468
Naglik, E. 705
Nagrale, M. R. 4118
Nagre, K. T. 4215, 5037, 6583, 7054
Nagumo, Y. 197
Nagy, G. 7604
Nagy, Z. 79, 386, 6947
Nahatkar, S. B. 6795
Naïdenov, A. S. 6144
Naidu, K. M. 4635, 6111, 7023, 7042, 7893, 8706
Naidu, K. R. 3458
Naidu, M. V. S. 982
Naidu, N. V. 349, 8460
Naidu, R. 3036
Naik, B. C. 5299
Naik, D. M. 2874
Naik, L. B. 3421
Naik, M. L. 4647, 5136, 5249
Naik, P. L. 2433
Naik, P. R. 2802
Nain, L. R. 2163
Nainawatee, H. S. 8424
Nair, A. K. 6765, 7394
Nair, K. P. P. 2808
Nair, N. P. 8241, 8245
Nair, N. R. 912
Nair, P. G. 4510, 6880
Nair, P. K. C. 205, 8241, 8245
Nair, P. M. 6871
Nair, S. K. 6016
Nair, T. V. R. 7925
Nair, V. G. 7558
Naito, H. 842, 920
Nakagawa, H. 927
Nakagawa, J. 1708, 2182
Nakagawa, T. 2951, 5243
Nakagawa, Y. 5245
Nakajima, J. 1126-1129
Nakajima, S. 5245
Nakamoto, T. 805, 8065
Nakamura, K. 4928
Nakamura, M. 8298
Nakamura, N. 6825
Nakanishi, M. 2691
Nakano, K. 2691
Nakano, T. 197, 5724
Nakaseko, K. 608
Nakashgir, G. H. 7325
Nakashima, H. 5932
Nakata, T. 2678
Nakayama, H. 2344
Nakayama, I. 8260
Nakayama, N. 918
Nakeeraks, P. 2873
Nakhtore, C. L. 8318
Nakielski, J. 4664
Nako, Y. 219
Nalawade, B. B. 6071, 7833
Nalewaja, J. D. 637, 641, 1945
Nalitolela, A. J. 1971
Nam, M. H. 2997
Nam, N. H. 7689
Namai, H. 166
Nambisan, P. 2502
Nambu, T. 6831
Namdeo, K. N. 3688, 7790, 8318, 8504, 8643
Namdeo, S. L. 4390
Namken, N. L. 1169
Nanaenko, A. K. 12
Nanda, B. B. 227
Nanda, G. S. 2464
Nanda, R. 5883
Nanda, S. S. K. 7397
Nandania, V. A. 8369
Nandekar, D. N. 8734
Nandihalli, U. B. 2550
Nandwal, A. S. 6798
Nanjappa, H. V. 6694
Nankar, J. T. 7727
Nankov, N. 3602
Nankova, M. 7633
Naphade, K. T. 4958
Naphade, P. S. 3147, 5092, 6601
Napier, R. M. 8177
Naqvi, M. I. 4591
Naqvi, P. A. 1210
Naqvi, S. M. A. 3154
Naqvi, S. M. S. 6569
Naqvi, S. S. M. 1436
Narain, P. 1987
Narang, R. S. 5479, 6073, 8003
Narasimha, N. 3572, 7337
Narasimham, R. L. 5304
Narasimhulu, S. B. 1874, 8689
Narayanan, A. 442, 3611, 4413
Narayanasamy, R. 6114
Narciso, G. 599
Naresh Kumar 2705
Nari, J. 5003, 7540-7541
Narinder Kaur 1741
Narkiewicz-Jodko, M. 718, 7244, 7615
Narteh, L. T. 1292
Narula, N. 2718
Narwal, R. P. 4051
Narwal, S. S. 1334, 3076, 5286, 5345
Nasasara, A. 8656
Nascimento, W. M. 5042
Naseem, B. A. 7666
Nash, J. 6456
Nasib-ur-Rehman 8079
Nasre, R. A. 6768, 8459
Nass, H. G. 2469
Nasseem, M. G. 7761-7762
Nassib, A. M. 8428
Nast, D. 1936
Nasyrov, Yu. S. 8106, 8618
Natarajan, M. 2874
Natarajaratnam, N. 4117
Nataranjan, R. 923
Nath, N. C. B. 5392
Nath, P. 6606
Nath, R. 5256
Nath, V. V. N. 1672
Nath-Kothiala, N. 2079
Nathu Singh 7017
Nátr, L. 4578, 5359-5360, 5435
Nátrová, Z. 5435, 8064
Natsuga, M. 4247
Naullah, G. M. P. 4368
Naumova, L. M. 3063
Nautiyal, N. 3753, 8729
Navaratnam, S. 6665
Navari-Izzo, F. 1522, 6063, 8663
Navarro, M. 739
Navhat, D. A. 4640
Navolotskiĭ, V. D. 6374
Nawata, E. 4374, 8111
Nawaz, S. M. 8607, 8620
Nawolsky, K. M. 2978
Nawracała, J. 1641, 7501
Nayagam, S. 2211
Nayak, B. C. 1216, 1238
Nayak, S. K. 6561
Nayar, T. V. R. 4504
Nayeem, K. A. 3967, 5891
Nayital, S. C. 784, 4716
Naylor, R. E. L. 4805
Nayyar, H. 2327, 3715, 6036
Nayyar, V. K. 210, 2452, 4908, 8493
Nazarov, A. Ch. 6035
Nazeer, M. 8715
Nazir, M. S. 2257
Ndegwa, C. M. 1995
Ndoye, O. 4279
Ndunguru, B. J. 3506-3507, 7573, 7575, 7581, 8380, 8398
Neale, M. 8004
Nechushtai, R. 2207

Nedeff, V. 3122
Nedelciuc, C. 134, 137, 510
Nedelciuc, M. 134, 137, 468
Nedić, M. 140, 5921
Nedunchezhian, N. 1086, 1314, 2254
Neelam Saharan 7912
Neema, V. P. 8463
Ne'eman, E. 2207
Neera, G. 1100
Negrilă, E. 364
Negrilă, M. 364
Negru, S. 3122
Negus, T. R. 7938
Neilsen, D. 627
Neilsen, G. H. 627
Neininger, A. 3018
Nel, P. C. 4848
Nelli, E. J. 1903
Nelson, D. B. 4277
Nelson, L. A. 7009
Nelson, L. A. K. 2570
Nelson, R. L. 1618, 5016
Nelson, S. O. 2822, 3210, 3332-3334, 7221
Nema, D. P. 7146
Nemchenko, V. A. 2439
Nemeth, K. 3134
Németh, T. 5508
Nemson, J. A. 6386
Nene, Y. L. 1099
Nenova, V. 7342
Nepal, Pakhribas Agricultural Centre 5369
Nepalia, V. 7835
Nes, W. D. 597, 4561
Nesterenko, M. V. 8184
Nesterova, S. M. 4086
Netherlands, Commissie voor de Samenstelling van de Rassenlijst voor Landbouwgewassen 6148-6149
Nettevich, È. D. 3238
Netting, A. G. 1696
Neubauer, W. 1774, 2926, 3643, 6857
Neufeld, H. S. 2371
Neuffer, M. G. 5595
Neuhaus, H. E. 2557
Neuhaus, J. M. 489
Neumann, P. M. 175, 3328
Neupane, P. R. 6187-6188
Neupane, R. K. 3508, 5511-5512, 5619, 6221, 7049
Neupokoev, A. A. 1606
Neuvel, J. J. 4323
Nevens, F. 5367
Neves, J. C. L. 798
New Farm Crops Ltd. 1470
New Zealand, New Zealand Institute for Crop and Food Research Ltd. 8093
Newaj, R. 8808
Newcomb, W. 6970
Newman, C. W. 4830
Newman, E. I. 8836
Newman, I. A. 1685, 8096
Newman, R. K. 4830
Newsome, J. 3199
Newson, L. J. 1626-1627
Neyroud, J. A. 7255
Ng, H. F. 4292
Ng, J. D. 5138
Ng, N. Q. 6789
Ng, S. Y. C. 6886
Ng Kee Kwong, K. F. 4850
Ngachie, V. 2808
Ngeve, J. M. 1815
Ngongang, J. C. 1022
Ngouajio, M. 2106
Nguen Suan', T. 858
Nguen Suan, T. 858
Ngugi, M. N. 2012
Nguyen, H. T. 71, 2049
Nguyen, M. T. 4865
Ni, B. 3335
Ni, J. S. 5029
Ni, Y. J. 4900
Niazi, M. H. K. 8274
Niazi, M. H. N. 8225
Niblack, T. L. 1628, 4236
Nicander, B. 8590
Nichol, B. E. 5519
Nicholas, J. C. 7534
Nicholls, N. 5476
Nichols, A. J. F. 2296, 5972
Nichugovskaya, V. D. 4923
Nick, P. 810, 7843
Nickell, C. D. 5736, 7536
Nicosia, O. L. D. 7266
Nicou, R. 763, 2196
Nicoullaud, B. 1518
Nie, G. Y. 2125, 8084
Nie, W. M. 2944
Nieden, U. zur 5531
Nielsen, B. J. 6380
Nielsen, E. 2564
Nielsen, G. A. 77, 8083
Nielsen, K. K. 4660
Nielsen, M. T. 3013, 3015
Nielsen, R. G. H. 602, 1583, 6587
Nielsen, S. 5953
Nielsen, S. S. 2899
Nielsen, V. S. 6384
Nieman, R. H. 2867
Niewezas, J. 3900
Niewiadomski, W. 2267
Nigam, A. K. 6023
Nigam, K. B. 8686
Nigam, S. N. 2810, 3509, 6703, 8386
Nigeria, International Institute of Tropical Agriculture 5370-5371
Nigeria, National Cereals Research Institute 7974
Nigwekar, A. S. 375, 5140, 5906
Nihei, N. 4975
Niitsu, M. 1059, 4410, 4412, 5915
Nijhawan, D. C. 2718
Nijkamp, H. J. J. 4695
Nikam, B. K. 8486
Nikitina, L. V. 1305
Nikitishen, V. I. 960, 5708
Nikitishena, I. A. 960
Niklas, K. J. 3116
Nikolaev, E. V. 4110
Nikolaeva, M. A. 3666
Nikolaeva, M. K. 4328, 7622, 8436
Nikonorova, A. K. 4015
Nilakantapillai, K. 5646
Nilan, R. A. 6365
Nilnond, C. 3382
Nilson, T. 2631
Nilsson, C. 7091
Nilsson, L. G. 731
Nimbole, N. N. 6026
Nimje, P. M. 1096, 1840, 3734
Ninganur, B. T. 5882
Ninno, M. de 3919, 6631
Niphade, D. B. 2360
Nirale, A. S. 566
Niranjan, K. P. 5678, 7048, 8284, 8286
Nirmal Singh 5630, 6078
Nirmalakumari, A. 1621
Nisar, M. 8014
Nishi, K. 8257
Nishi, T. 8783
Nishimura, H. 3167
Nishimura, M. 866, 1053
Nishimura, T. 4362
Nishimura, Y. 2898, 6825
Nishioka, D. 4634
Nishitani, T. 5917
Nishiyama, H. 1557-1558
Nissilä, E. 5533
Niţă, C. 133
Nitsch, A. 3652-3654, 5950
Nitta, H. 219
Nitta, Y. 2778
Nitti, G. 344
Nitz, S. 3030
Niu, J. Q. 3578
Niu, J. Y. 4451
Niwas, R. 1736
Nizami, M. I. 822
Njualem, D. 2307
Njuho, P. M. 2094, 2176
Nnodu, E. C. 422
No, Y. P. 734
Noaman, M. M. 3232
Noat, G. 5003, 7540-7541
Noble, A. D. 7149
Nóbrega, L. B. da 428, 7759, 7766
Noda, K. 5441
Noel, K. D. 8454
Noël-Reyniers, F. 2408
Nogueira, A. V. 939
Nogueira, F. D. 1546
Nojima, H. 1005
Nola, A. di 2251, 8472
Nolte, K. D. 4863
Nolting, H. F. 6665
Nomoto, K. 8308
Nomura, M. 6017
Nonaka, S. 1404
Nonami, H. 6666
Nonhebel, S. 671
Noodén, L. D. 4994
Nooman, H. J. 2033, 3277
Noordwijk, M. van 1908, 2086, 2310, 2313, 4419, 8062
Norberg, O. S. 4589, 6081, 6084, 6990
Nordquist, P. T. 7637
Norlyn, J. D. 5515
Norman, J. M. 2792
Norman, R. J. 3343, 3348-3349
Noro, M. C. S. S. 4290
Norris, E. 7556
Norris, N. E. 1186
Northcote, D. H. 7606
Nortjé, P. F. 1141-1142
Norton, D. C. 1628
Norton, R. A. 4561
Norvell, W. A. 5520-5521, 8413
Nothnagel, E. A. 170
Nouchi, I. 7943
Nour, J. J. 6605
Nour, T. A. K. 5073
Nourai, A. H. 5125, 7672
Nova, N. A. V. 2690
Novaev, N. N. 6035
Novais, R. F. 798
Novák, V. 8310
Novembre, A. D. L. C. 4332, 6440
Novickienė, L. 5148
Novikova, N. E. 3528
Novogrudskii, V. E. 7213
Nowak, G. 2784
Nowak, T. J. 3071
Nowak, W. 719, 7224
Noworolnik, K. 724, 6359
N'soukpoé-Kossi, C. N. 1684
Ntare, B. R. 352, 6780, 8398
Ntonifor, C. 2307
Nuer, D. G. 2708
Nugent, J. H. A. 1683
Nugroho, W. H. 2313
Núñez, C. 7681, 7683
Núñez Díaz de Terán, L. 3153, 3740
Nurliev, Sh. N. 8610
Nuttal, W. F. 1230
Nwokedi, P. M. 8597
Nyaki, A. S. 2015
Nyborg, M. 730, 2541, 3230, 4813, 5506
Nygaard, K. B. 6069
Nyirenda, N. E. 8359, 8364
Nyuppieva, K. A. 7622
Nzetchoung, F. 2808
Oaks, A. 153, 801, 5585, 6164, 6473
Obendorf, R. L. 2787
Obenland, D. 5529
Obenland, D. M. 5528
Oberholzer, H. R. 1707, 2016
Oberhuber, W. 6152
Obi, I. U. 8597
Oblisami, G. 8374, 8744
Oborný, J. 1468
Obrębska-Starklowa, B. 4204
Obreht, Z. 2054
Obrenović, S. R. 4878
O'Brien, P. J. 1767
Obroucheva, N. V. 3549
O'Carra, P. 412
Ocheşanu, C. 1003
O'Connor, G. E. 6713
Oderinde, R. A. 5227
O'Donnell, J. P. 313, 2817, 6707
O'Donnell, M. 412
O'Donovan, J. T. 1236
O'Driscoll, D. 5485
Oelck, M. 4571
OeMatan, S. S. 5537
Oertli, J. J. 5742, 8201
Oettmeier, W. 4309
Offler, C. E. 5065, 6289
Ofosu-Budu, K. G. 2746, 5918
Ogata, F. 1640
Ogata, H. 2797
Ogata, S. 1591, 2746, 4880, 4966, 5918
Ogata, Y. 499
Ogawa, N. 7350
Ogawa, T. 4964
Oger, R. 2738
Ogg, J. B. 4372
Oghiakhe, S. 3582
Ogilvy, S. E. 314, 467, 588, 1051, 3634, 3640, 8300
Ogo, T. 842, 898, 920
Ogolla, H. A. 2017
Ogren, W. L. 6166
Ogunlela, V. B. 2700, 6889
Ogura, M. 2652
Oh, J. H. 5021
Oh, J. Y. 2785, 2800
Oh, N. K. 228
Oh, S. H. 917, 6663
Oh, Y. B. 7411
Oh, Y. J. 195, 8256
Oh, Y. S. 1205, 5028
Ohad, I. 4309, 6732
Ohana, P. 4020
Ohashi, K. 2551, 6385
Ohhara, Y. 7873
Ohkawa, Y. 4964
Öhlén, E. 322
Ohlrogge, J. 5797
Ohlrogge, J. B. 2208, 8691
Ohlsson, I. 1362, 8680
Ohmori, Y. 3696
Ohnishi, J. 5339
Ohnishi, M. 5866
Ohnisi, M. 5914
Ohshima, M. 1048
Ohta, H. 4246, 5842
Ohtani, K. 6020
Ohtsubo, K. I. 7420
Ohtsuka, T. 4897
Ohuchi, K. 866
Ohuchi, S. 4898-4899
Ohyama, H. 4924
Ohyama, T. 5724
Oijen, M. van 8574
Oiji, A. 5656
Oishi, K. K. 5586
Ojala, J. C. 5181
Ojanperä, K. 121, 4784
Ojeniyi, S. O. 5542, 6429
Ojima, I. 5656
Ojima, K. 891, 4925, 5444, 5653, 6154
Okada, S. 4476
Okagami, N. 6018-6019
Okalebo, J. R. 2094, 2176
Okamoto, K. 7492
Okano, K. 8048
Okayama, L. 1281
Okazoe, A. 7245
Oke, O. L. 3031
O'Keefe, B. E. 5555
O'Kennedy, M. M. 2862
Okereke, G. U. 353, 3504
Okezie, C. E. A. 6883
Okii, M. 3398
Okita, T. W. 1921, 3823, 5443
Okkels, J. S. 6384
Okon, Y. 3436
Okonkwo, S. N. C. 6783, 6883
Okos, M. R. 2650
Okovitaya, R. N. 6340
Okruszko, H. 7077

Oktem, H. A. 6569
Oku, H. 1681
Oku, T. 568
Okubo, H. 4418
Okubo, K. 4420, 5757, 7543-7544
Okuda, K. 6031
Okuda, T. 4774, 6295
Okumura, S. 7350
Okuno, K. 3361
Olaru, C. 511
O'Leary, J. W. 3764
O'Leary, M. H. 2400
Olecki, Z. 4204
Oleinikova, T. A. 8335
Olesen, J. E. 1940
Olien, C. R. 4205
Olifer, V. A. 1
Oliveira, A. F. F. de 4248
Oliveira, C. A. da S. 331
Oliveira, F. A. de 426
Oliveira, H. de F. 4111
Oliveira, J. C. 2793
Oliveira, J. M. de 8279
Oliveira, J. T. A. de 8516
Oliveira, L. A. 5519
Oliveira, L. A. de 4223
Oliveira, V. F. 7305
Oliveira Camargo, C. E. de 2070
Oliver, D. J. 2212, 5792
Oliver, L. R. 5430
Oliver, M. J. 5053
Olivier, J. 816
Olness, A. 5539
Olofsson, B. 1785
Ologunde, M. O. 3031
Olsen, C. C. 607
Olsen, C. E. 3531
Olsen, J. A. 2990
Olsen, O. A. 967, 1481, 4022, 8130
Olson, D. J. 8586
Olson, D. L. 7010
Olson, R. A. 2100
Olson, S. M. 2525
Olsson, G. 3762
Olszyk, D. M. 5086
Olteanu, F. 134
Olufajo, O. O. 6640, 6678
Om, H. 4717, 5641-5642
Omar, M. B. E. 3832-3833
Omar, M. N. A. 7212
Omar, S. A. 5825
Omara, M. K. 2877
Ombakho, G. A. 6904
Omer, A. D. 1787
Ometov, Y. S. 7697
Omokaro, D. N. 6784
Omoso, N. 219
Omoto, H. 3251
Omran, A. 5375
Onaitis, A. 8532
Oncsik, M. 4838
Öncü, S. 1181
O'Neil, R. J. 7557
Onelli, E. 4316
Ong, C. 6792
Ong, C. K. 1489, 2171-2172, 6704, 6792
Onkar Singh 8490, 8717
Onken, A. B. 1588, 2724
Onkingco, P. S. 4113
Onks, D. O. 7377
Ono, T. 1557-1558, 7245
Onokpise, O. U. 3697
Onstad, D. W. 3484
Onu, I. 1819
Onwualu, A. P. 8597
Onyezili, F. N. 7490
Oomah, B. D. 6085
Oono, K. 3396, 8268
Oostergetel, G. T. 4473
Oosterhuis, D. M. 432, 1823, 2325, 6897, 8821
Oosthuizen, L. K. 65
Oota, T. 788
Opanasenko, V. K. 7597
Oparka, K. J. 4679, 4799, 5374, 6190
Openshaw, S. J. 7372
Oplinger, E. S. 25, 977
Opondo, R. M. 6904
Öquist, G. 650, 1035, 1917, 2076, 2826, 3970, 6350, 6752, 8105
Orange, D. N. 602
Orazova, D. Ch. 8610
Ord, B. G. 3532, 6728
Ordoñez, R. 2593
Orf, J. H. 1618, 3459, 4209, 4211, 7516
Orgaz, F. 1172, 1932
Orlich, G. 1835
Orlik, T. 2293
Orlova, È. D. 1606
Orlovius, K. 5150
Ormeño-Nuñez, J. 6314
Ormrod, D. P. 8587
Ormrod, J. C. 1422
O'Rourke, J. F. 5161
Orr, A. R. 4874
Orr, J. D. 1880
Orson, J. 588
Ort, D. R. 2329, 8657
Ortega, J. 6656
Ortiz, A. 848
Ortiz, J. M. 1866
Ortiz de Zarate, I. 5153
Ortiz-Lopez, A. 2329
Ortmann, U. 3204
Ortuño, A. M. 2261
Orudzhev, È. M. 4199
Osagie, A. U. 2422
Osawa, T. 6933
Osborn, T. C. 6976
Osborne, D. J. 5838
Osborne, L. D. 6155
Oscarson, P. 322, 8414
Osei-Kofi, V. 279
Oshimi, K. 5928
Osipova, L. N. 6362
Osman, H. A. 1625
Osman, M. E. H. 269
Osmond, B. 5444
Osmond, C. B. 5077, 7530
Osorio, J. A. 991
Osorio Cardona, J. A. 3051
Ostaplyuk, A. N. 7202
Ostegaard, J. 456
Osten, V. A. 242
Oster, J. D. 1177
Osuala, C. I. 2899
O'Sullivan, J. N. 472
Osvath, T. 6279
Oszczygieł, A. 1905
Ota, Y. 5243
Otabbong, E. 2542
Otan, H. 7849
Otani, T. 7245
Otegui, M. E. 1495
Oteng, J. W. 1292
Otgonbaatar, I. 512
Oti-Boateng, C. 2229
Otoul, C. 628
Otrysko, B. E. 4467
Otsubo, A. A. 4137
Ott, P. 7063
Ottaviano, E. 940
Otten, L. 4255
Otto, B. 6734
Ottow, J. C. G. 213, 3358, 4119, 4911, 6527, 7406
Ou, K. L. 7274
Ouattar, S. 968
Oueida, A. F. 2967
Ougham, H. J. 8347
Oura, R. 7301
Ourry, A. 8769
Oussible, M. 7208
Outlaw, W. H., Jr. 5826
Outtara, M. 4193
Ouyang, G. C. 4929
Ouyang, L. J. 8337
Ovcharenko, G. A. 8411
Ovcharenko, M. M. 103
Ovchinnikov, V. N. 5207
Overall, R. L. 330, 1685, 4873
Overdieck, D. 594
Overlach, S. 5793
Overvoorde, P. J. 3490
Ovsyannikova, T. V. 4665
Ow, D. W. 484
Oweis, T. 4333
Ownby, J. D. 6290
Owonubi, J. J. 6687
Oyamada, Z. 6533
Oyanagi, A. 675, 8065
Oza, S. R. 3736
Ozalp, C. V. 6569
Ozawa, T. 2797
Ozeki, S. 3983
Ozga, J. A. 2216, 8419
Özkaya, H. 1443
Ozoliņa, G. 3246
Pachepskiĭ, Ya. A. 5708
Pachepskiy, Ya. A. 5708
Packiaraj, S. P. 192
Pacova, B. E. V. 3566
Pacquit, V. 7459
Pacumbaba, R. P. 2773
Padalia, C. R. 4893, 6501
Padgett, P. E. 4074
Padhi, A. K. 609, 1079, 2669, 7124
Padhye, S. 8409
Padiglia, A. 2896
Padilla, C. 439
Padma, M. 1709
Padma, V. 2801, 7562-7563, 7567
Padmaja, G. 3225
Padmakar 3845
Padmalatha, Y. 4289
Padmani, D. R. 7839
Padmavathi, M. 3587
Padole, V. R. 4776
Padovan, S. 6631
Paet, C. N. 8583
Pagani, D. 7268
Page, J. L. 4056
Page-Degivry, M. T. le 5265
Pageau, D. 2073
Pagel, H. 92, 7234
Pagès, L. 1926
Pages, L. 3313-3314
Pagnoni, F. 3859
Pahlich, E. 541, 4755
Pahuja, S. S. 5345
Pahwa, S. K. 5121
Pai, L. H. 8164
Paikaray, R. K. 6977, 7782, 7829
Paikray, R. K. 1238
Paillotin, G. 6731
Paino D'Urzo, M. 1724, 1729
Pakhomov, D. V. 6288, 7165
Pakhomova, V. M. 6288, 7165, 7196
Pal, A. K. 6787
Pal, A. R. 7036
Pal, C. S. 4903
Pal, D. 5641-5642
Pal, S. 5423
Pal, S. K. 72
Pal, U. R. 6640
Pala, V. 7955
Palaniappan, S. 186, 2655, 8240
Palaniappan, S. P. 4894
Palanivel, A. 3795, 7471
Palchamy, A. 6686
Palevitz, B. A. 495, 6670
Paley, L. G. 3243
Palfner, G. 7491
Pali, G. P. 7413
Palík, S. 1449, 1452
Paliwal, A. K. 3356
Paliwal, K. 5864
Paliyath, G. 8451
Palled, Y. B. 769, 4956
Pallett, K. E. 2559
Pallikondaperumal 4214
Pallio, A. 8183
Pallutt, B. 2842
Palm, C. A. 8210
Palm, K. L. 2907
Palmal, D. 7800
Palme, K. 812, 5591, 8177
Palmer, C. E. 1867, 4571
Palmer, G. H. 249, 3385
Palmer, J. H. 3460
Palmer, R. G. 1637
Palmgren, M. G. 8776
Palmieri, F. 8191
Palni, L. M. S. 3771-3772, 8697
Palomero, J. L. 4011
Paloscia, S. 6193
Palta, J. A. 3965
Palta, J. P. 2932, 6976
Palumbo, M. 1417
Pampaloni, P. 6193
Pan, H. P. 6533
Pan, J. 5627
Pan, R. 6553
Pan, R. C. 6706, 8217
Pan, R. L. 350, 5095
Pan, S. Z. 6572
Pan, T. G. 3794
Pan, W. L. 8009
Pan, X. K. 6029
Pan, Y. R. 7211
Pan, Z. P. 1904
Panabières, F. 487
Panadero Pastrana, C. 1061
Panaitescu, E. 7508, 7915
Panchabhavi, K. S. 1188, 5685
Panchal, Y. C. 3920, 6764, 6894
Panchenko, A. F. 7166
Panda, B. S. 1550, 6977
Panda, D. 862
Panda, M. M. 2689
Panda, M. P. 6509
Panda, S. 7777
Pande, H. P. 7022
Pande, P. C. 3968
Pandey, A. 7385
Pandey, B. D. 2023
Pandey, D. D. 2886, 5256
Pandey, D. K. 3568
Pandey, G. S. 558
Pandey, N. 8224, 8456
Pandey, O. N. 1967
Pandey, P. C. 2520
Pandey, R. 31
Pandey, R. K. 5100, 5863, 6735, 7619
Pandey, R. P. 7385
Pandey, R. S. 3079
Pandey, S. 1209-1210, 7838
Pandey, U. K. 3405
Pandher, M. S. 2794, 3577, 4953, 5881, 8518
Pandian, B. J. 1270, 3796, 5303, 7019-7020, 8723
Pandita, M. L. 3641, 5937, 5939
Pandrangi, R. B. 5220, 6768, 8459
Paneque, V. M. 4620
Paneru, R. B. 6188, 7089
Paneth, P. 2400
Pang, A. 7859
Pang, M. K. L. 4857
Pangarkar, V. N. 7785
Panichajakul, S. 6916
Panicucci, A. 6328
Panigrahi, N. C. 5668
Panigrahi, V. C. 6509
Panigrahy, S. 2699
Pankova, N. K. 8751
Panneerselvam, R. 503
Pannu, R. K. 1938, 4356, 5847
Pant, A. K. 693
Pant, P. C. 2023
Pantanahiran, W. 3382
Pantoja, O. 3627
Pantone, D. J. 1561, 4132
Panwar, B. S. 2361, 3032, 8716
Panwar, J. D. S. 3976, 4787
Panwar, K. S. 3129, 5350, 6100
Panwar, R. S. 953, 3926, 4174, 4530, 5429, 8492
Paoletta, G. 7266
Paoletti, M. G. 4706
Paolillo, D. J., Jr. 1419
Paolini, R. 1844, 3045
Papa, D. 2047
Papadopoulos, A. 8349
Papadopoulos, I. 3650
Papadopoulou, K. 4319
Papakosta, D. K. 303
Papendick, R. I. 4713
Paradkar, V. K. 286, 7832
Paralikar, K. M. 1821

Paramasivam, M. 5041
Paramasivam, P. 4525
Paramasivan, K. S. 5646
Parameshwarappa, K. G. 5882
Paraschivoiu, R. 437
Parashar, A. K. 369
Pardossi, A. 3563, 3567
Paré, T. 125
Pareek, R. P. 8499
Parent, L. E. 7058
Parente, A. 4841
Parera, C. A. 7376
Parets-Soler, A. 8776
Parfyanovīch, M. I. 3906
Pari, L. 936
Parihar, J. S. 2699, 5479
Parihar, S. S. 1871, 7805
Parijs, R. van 1701
Paris, Q. 3276
Parish, R. W. 4083
Park, C. K. 1031, 5021
Park, C. Y. 734
Park, E. H. 734, 5727, 6650
Park, G. H. 228
Park, H. G. 1028
Park, H. J. 5274
Park, H. W. 5028, 6702, 7844
Park, K. B. 937
Park, K. G. 4808
Park, K. H. 1205, 4891, 5028, 6931
Park, K. K. 4969, 6348
Park, K. Y. 498, 1260, 4605, 4854, 6476, 8326, 8355
Park, M. E. 6348
Park, M. S. 1205, 5028
Park, N. J. 7844
Park, N. K. 4122-4123
Park, R. K. 498, 1260, 4122-4124, 4605, 4854, 4969, 5274, 5727, 6476, 6568, 6650, 6702, 6903, 6928, 7844
Park, S. H. 5028, 5246
Park, S. I. 8328
Park, S. J. 2854-2855
Park, S. K. 2800
Park, S. T. 834
Park, S. U. 4854, 6476
Park, T. I. 8326
Park, W. 3397
Park, W. C. 2997
Park, W. I. 7931
Park, Y. H. 6903
Park, Y. J. 287
Park, Y. K. 8328
Park, Y. S. 7865
Parkash, G. 2999
Parker, C. W. 8781
Parker, D. R. 2484, 7659
Parker, J. N. 2406
Parker, J. S. 1524, 5596, 6469
Parker, R. 2856
Parkhamovīch, G. Z. 3996
Parkhurst, A. M. 5602
Parkhurst, B. H. 7959
Parkpian, P. 794
Parmar, M. T. 1667
Parmer, U. 5261
Parmil Singh 5261
Pärnik, T. 8446
Parniske, M. 4424
Paron, G. J. E. 4988
Parrish, D. J. 6225
Parrott, W. A. 5916
Parry, A. D. 5837
Parry, M. A. J. 5080
Parry, M. L. 2645
Parshad, V. R. 7035
Parshikova, T. A. 4402
Parsley, D. 1143
Parsons, R. 6186
Parsunkova, S. A. 3809, 8006
Parthasarathy, M. V. 496, 5811, 6730
Parthier, B. 4025, 5531
Partohardjono, S. 8753
Parvatikar, S. R. 4171
Parys, E. 6443
Pascual, J. A. 2543
Pasda, G. 1222-1223, 3737, 7967
Pasechnyuk, L. E. 7095
Pasierski, Z. 3966
Pasin, N. H. 2239
Pasini, G. 1761
Paslawar, A. N. 3807
Pasov, V. M. 7095
Pasqua, G. 3774
Pasquini, M. 3919, 6631
Pasricha, N. S. 278
Passama, L. 2187
Passi, S. 4472
Passioura, J. B. 2388
Pasternak, T. P. 8069
Pastore, D. 700
Pastori, G. M. 5606, 6320
Pataky, J. K. 2133
Patanothai, A. 6701
Pate, J. S. 1109
Patefield, W. M. 1006
Patel, A. M. 7760
Patel, A. T. 3756
Patel, B. A. 948, 2433, 5696
Patel, B. S. 7135, 7907, 8285, 8369
Patel, C. L. 8396
Patel, C. S. 755, 1670, 3815, 5783, 6109, 6412, 6502
Patel, D. J. 8296
Patel, D. M. 948, 7760
Patel, G. M. 7760
Patel, H. R. 8373
Patel, H. S. 5299, 8722
Patel, I. D. 3756
Patel, J. C. 7135, 7839, 7907, 8285, 8369
Patel, J. K. 1017, 6892, 7807, 7836, 7838, 8377
Patel, J. R. 7446
Patel, K. K. 5420
Patel, K. M. 3756
Patel, K. R. 7025
Patel, K. V. 5040
Patel, L. R. 1017
Patel, M. M. 948
Patel, M. P. 8722, 8801
Patel, M. S. 311, 5026
Patel, N. M. 5420
Patel, P. C. 7446
Patel, R. B. 5420
Patel, R. H. 241, 955, 1017
Patel, R. K. 7669
Patel, R. S. 8504
Patel, S. C. 7380
Patel, S. K. 948
Patel, S. L. 4116, 5394, 6514, 7413
Patgiri, D. K. 5622
Pathak, M. D. 5382
Pathak, P. 8367
Pathak, R. S. 6904
Pathak, S. U. 6872
Pathre, U. 6606
Pati Ram 6146
Patil, A. A. 419, 4498, 6010
Patil, A. B. 7903
Patil, A. D. 7876
Patil, A. S. 7876
Patil, B. N. 5023
Patil, B. P. 4126
Patil, B. R. 1271, 5305, 6531
Patil, B. V. 4548, 6949
Patil, D. B. 3147, 8280
Patil, E. N. 4184, 8486, 8736
Patil, F. B. 8281
Patil, J. R. 1284-1285, 6894
Patil, M. N. 4958
Patil, M. P. 5299
Patil, M. S. 6269
Patil, N. B. 1821, 4524, 5221-5222
Patil, N. D. 2366
Patil, N. M. 8640
Patil, N. Y. 7748
Patil, R. C. 7559
Patil, S. A. 461
Patil, S. B. 6812
Patil, S. G. 18
Patil, S. J. 461
Patil, S. K. 5676, 6411, 7319
Patil, S. M. 6483
Patil, S. N. 8600
Patil, S. V. 8654
Patil, V. A. 6644, 8603
Patil, V. C. 2815
Patil, V. K. 3610
Patil, V. P. 2756, 4228, 4275, 7070
Patil, V. S. 419, 451, 4498, 6057
Patil, Y. B. 419, 4498, 6010
Patiño Arcos, H. 1951
Patnaik, S. 862
Patoine, M. 5944
Paton, N. H. 6124
Patorczyk-Pytlik, B. 7231
Patra, B. C. 7055
Patra, S. K. 2669
Patra, S. S. 6821
Pătrăşcoiu, C. 137
Patrick, J. W. 5065, 6289, 6738, 7623
Patro, G. K. 2200, 3369, 7052, 7403
Patro, N. 7565
Patruno, P. 392
Pattanayak, A. 4144
Patterson, D. 6875
Patterson, D. E. 7110
Patterson, G. W. 597, 6988
Patterson, M. G. 1186
Patterson, R. P. 4990
Pauk, J. 6973
Paul, H. L. 6468
Paul, N. K. 465, 478
Paul, R. K. 5126
Paul, S. R. 7185
Paul, V. H. 1226
Paula, M. A. 5215
Paula, M. B. de 1546
Paulet, F. 7891
Paulino, V. T. 360
Paull, J. G. 7601
Paulsen, G. M. 5464
Paulsen, H. 2207, 6389
Paulsen, M. R. 3335, 4977, 7313
Păun, R. 7326
Pausch, R. 299
Pavan, M. A. 3931
Pavek, J. J. 1805, 5181, 5979
Paven, G. 264
Pavlish, L. A. 7637
Pavlista, A. D. 5947
Pavlov, A. N. 3172
Pavlova, Z. N. 673
Pavlović, M. 3158, 3161
Pavlovskaya, N. E. 6039
Pavoni, A. 8000
Paw U, K. T. 2643
Pawar, H. K. 4641, 6692
Pawar, K. R. 3730, 6950
Pawar, L. G. 3791
Pawar, S. D. 4061, 4065
Pawar, S. H. 6585
Pawelec, T. 6044
Pawelzik, E. 1237
Pawłowski, F. 978, 2266, 7988, 8113
Pawluk, S. 3042
Pax, M. H. 7959
Payne, W. A. 2724
Payton, F. V. 416
Paz, O. P. da 1159
Paz P., M. 5560-5566
Pazzetti, G. A. 1074
Peacock, J. M. 255, 3433-3434
Pearce, D. W. 5278
Pearce, F. 4636
Pearce, G. 8699
Pearce, J. 1762
Pearce, R. C. 7497
Pearce, R. S. 687
Pearce, S. C. 3093, 3855
Pearson, C. H. 7638
Pearson, C. J. 4761, 6219
Pearson, N. 1644-1645
Pease, J. W. 4099
Peat, W. E. 2420
Peč, P. 7607
Pech, J. C. 1720
Pechenkin, N. A. 4269
Pecio, A. 724
Pedalino, M. 1729, 4371
Pedersen, C. A. 2340
Pedigo, L. P. 2772, 3482-3483
Pedraza, D. 8582
Pedreño, M. A. 1720
Pedro Júnior, M. J. 1376
Pedroso, P. A. C. 1542
Peel, S. 517
Peeran, S. N. 6490
Pegues, M. L. 4237
Peisker, M. 2170
Pekhal'skiĭ, I. A. 85
Pekhletskaya, A. F. 530
Pelazza, N. 7247
Peleg, I. 4297
Pell, E. J. 5380
Pellerin, S. 2089, 2121, 2129, 2347, 3323, 8664
Pellet, D. M. 7739
Pellizzi, G. 7110
Peltonen, J. 2444, 4762, 8012
Peltonen-Sainio, P. 5486, 7226
Peña Ortega, M. G. 8317
Penel, C. 1700
Penescu, A. 638
Peneva, N. 7702
Peng, F. Y. 6150
Peng, J. H. 865
Peng, S. 6577
Peng, X. X. 5650
Peng, Y. C. 2809
Pengelly, B. C. 7690
Penner, D. 2766, 2914
Penney, D. C. 2179, 4813
Penning de Vries, F. W. T. 5100, 5102, 5383
Penny, A. 7998
Penot, M. 4471
Pensuk, V. 6701
Pentaiah, V. 3509, 8386
Peñuelas, J. 8452
Peoples, M. B. 561, 6497, 7503
Pepegna, F. 2206
Pepper, I. L. 6898
Perakis, K. 1342
Peralta Izarra, P. 8593
Perata, P. 4952, 8311
Percival, M. P. 6281
Percy, R. G. 4528
Perdue, T. D. 2120
Peregrine, W. T. H. 1363
Pereira, A. R. 2690
Pereira, J. 1617
Pereira, J. A. M. 2954
Pereira, J. C. 1056
Pereira, J. C. V. N. A. 1716
Pereira, J. S. 3087
Pereira, J. T. 2057
Pereira, L. R. 601
Pereira, M. 1584
Pereira, M. de F. D. A. 1070
Pereira, S. 5291
Pereira Filho, I. A. 4042
Pereire, J. F. 421
Perelli, M. 8696
Perenzin, M. 961, 2020, 3919, 6631
Peres, J. R. R. 1617
Pereshki, S. R. 6572
Pereverzeva, I. N. 116
Pereyra, M. C. 1432
Pérez, D. 1771
Pérez, F. J. 6314
Pérez, F. R. 63, 82
Pérez-Alfocea, F. 1652, 4266
Pérez de la Ossa, P. 5583
Perez-Pico, J. E. 4656
Pérez Ponce, J. 7890
Pergher, G. 839
Periasamy, S. 8483
Perkins-Veazie, P. 7630
Perniola, M. 935, 941
Pernollet, J. C. 1795, 5280
Perrier, A. 6177
Perrissin-Fabert, D. 674
Perrot-Rechenmann, C. 7349
Perry, C. D. 8321
Perry, J. N. 3975
Perry, M. W. 6214
Persaud, N. 933, 4193
Pershak, I. T. 554

Persoons, C. 2314
Persson, H. 2131, 3878
Persson, J. 2542
Perumal, N. K. 3719
Perumal, P. K. P. 2813
Perumat, R. 6696
Peruzzi, A. 2571
Perveen, S. 8018
Peschel, S. 1703
Pesci, C. 295
Pesci, P. 1417, 2048
Peshkova, A. A. 3943
Pestereva, N. M. 3864
Peter, C. 4875
Peterová, J. 3618
Peters, J. A. 247-248
Peters, R. 1387
Peters, S. E. 575
Peters, W. S. 5591, 8182
Petersen, J. 733
Petersen, W. 3299
Peterson, A. E. 7318
Peterson, C. A. 4096, 4671, 6454
Peterson, C. J. 1399
Peterson, C. J., Jr. 6272
Peterson, C. M. 1642, 3494, 7549
Peterson, D. E. 637
Peterson, G. C. 1588
Peterson, L. A. 5817
Peterson, R. L. 2647
Peterson, W. R. 2100
Pethő, M. 4859, 4869-4870, 5437
Petit, P. X. 1798
Petitte, J. M. 8587
Petkov, L. 2716
Petraitienė, V. 5331
Petraneva, O. G. 7168
Petrasovits, I. 8074
Petrenko, S. V. 1117
Petrescu, E. 523
Petrichenko, V. F. 8324
Petrie, C. L. 4370, 5103-5105, 6622
Petrini, C. 1586, 1833
Petrović, M. 2338, 6838
Petrović, N. 2338, 6838
Petrussa, E. 6724, 7604
Pettigrew, W. T. 4252, 6025, 7750, 8602
Petz, J. 8806
Petzold, U. 1703
Peuke, A. D. 6922
Pezeshki, S. R. 7415
Pezzali, M. 2060
Pezzi, F. 6231
Pfeffer, P. E. 5770-5771, 6444
Pfefferli, S. 7299
Pfeiffer, W. 8173
Pfirrmann, T. 4780
Pfister, K. 8135
Pfleeger, T. 4989
Pfündel, E. E. 4305
Pham Thi, A. T. 3824
Phan, C. T. 3936
Pharis, R. P. 4829, 5278, 6067
Phene, C. J. 1177
Phia, M. 7333
Philip, V. J. 3534
Philips, A. T. 5853
Phillips, D. A. 2242
Phinney, B. O. 807, 8185
Phipson, J. D. 4849
Phogat, S. B. 3593, 5416
Phogat, S. M. 3591
Phongpan, S. 8223
Phothitai, M. 1967
Phundan Singh 431, 7765
Phupaibul, P. 5908
Piana, Z. 4654
Pical, C. 3177
Picard, D. 547
Picazo, I. 4920
Piccini, D. F. 2234, 4138
Piccirillo, P. 6996
Pich, A. 6159
Pickard, W. F. 2233, 8410
Pickering, M. G. 7595
Picman, A. K. 7812
Picorel, R. 1759, 5153
Picton, S. J. 7175
Piech, M. 714-716, 958, 7238, 7242
Pienaar, B. J. 5107
Pienz, G. 1775
Pierce, F. J. 762
Pieri, J. C. de 4242
Pierre, J. N. 7459
Pierron, A. 2379
Pierson, E. S. 1885, 6096
Pierzynowska-Korniak, G. 3779
Pierzynski, G. M. 2596
Pietola, L. 1137
Pietrasz-Kęsik, G. 705
Pigareva, N. N. 1462, 2074
Pigeaire, A. 8513
Pihakaski-Maunsbach, K. 6069
Pijeira, L. 4457
Pikul, J. L., Jr. 6234
Pilbeam, C. J. 6736
Pilbeam, D. J. 537, 595
Pilet, P. E. 6455, 6474
Pilláí, G. R. 8219
Pillai, K. G. 4910
Pillai, M. K. K. 365
Pillai, P. V. A. 3895
Pillai, R. N. 982, 6574
Pilshchikova, N. A. 645
Pimentel, D. 4706
Pineau, B. 6441
Ping, S. Z. 5670
Ping, Z. 2353
Pinheiro, W. J. 1000
Pinheiro Filho, J. B. 2954
Pinkerton, A. 6938
Pinochet, X. 289
Pińska, M. 5961
Pinter, L. 2114
Pinto, V. de 8191
Pinto-Toyi, A. K. 2597
Pinton, R. 4338, 8097
Pinty, J. P. 2124
Pînzariu, D. 7904
Pinzino, C. 6063
Piorr, H. P. 4714
Piotrowska, M. 6635
Piovezan, A. J. 3982
Pip, E. 8588
Piper, E. L. 1497, 5554
Pippalová, E. 1612
Pirali, G. 2564
Pirani, V. 2205, 2232, 4295, 4334
Pires, R. C. de M. 1715
Pires Bianchi, M. de L. 2782
Piro, F. 6996
Piro, G. 7606
Piróg, H. 2258
Piruzyan, É. S. 6917
Pisal, A. A. 5676, 6411, 7319
Pisante, M. 449, 8030
Pishchekova, V. I. 1783
Pissaloux, A. 5900
Pissani, J. F. 6616
Pissani-Zuniga, F. 6615
Piszczalka, J. 1499
Pitcher, L. H. 1077
Pitt, W. D., Jr. 7377
Pitta, G. V. E. 7453
Pittelkow, U. 519
Pitts, D. J. 7754
Pius, J. 4191
Piva, C. 2380
Pizzolongo, P. 8030
Pla Sentis, I. 5674
Plana, R. 3792
Planchon, C. 5737
Plant, R. E. 3053
Plant Breeding News Letter 8639
Plantureux, S. 2129
Plas, L. H. W. van der 4695
Platford, G. G. 8707
Platonova, L. S. 1430
Platonova, N. A. 1676
Plaut, Z. 4519
Plaxton, W. C. 2971, 6080, 6163
Pleijel, H. 121, 4784
Plénet, D. 2091, 2096
Plesevičienė, A. 4812
Plessis, H. F. du 1141-1142
Plessis, S. du 2862
Plett, S. 4885
Plooy, C. P. du 420, 1160
Plumb, R. T. 1457
Plyčevaitienė, V. 6349
Pobezhimova, T. P. 5613
Poder, D. 1794
Podlaski, S. 2271
Podlesak, W. 4746-4747
Podolska, G. 1982-1983
Poehner, W. J. 4864
Poesse, G. J. 7110
Poff, K. L. 1254
Pogăcian, M. 135
Pogna, N. 961
Pogna, N. E. 3919, 6631
Pogorelyi, V. V. 7697
Pokorný, E. 1449
Pokulenko, A. P. 6347
Pol, K. M. 8603
Pol, P. S. 4556, 6948
Polacco, J. C. 2780
Polanco, C. A. 131
Polara, J. V. 8396
Polara, K. B. 8396
Polenova, T. N. 3224
Polet, G. 4684
Polev, N. A. 1933
Polevaya, V. S. 8335
Polevoĭ, V. V. 5594
Polley, H. W. 2064, 4779, 6346
Pollhamer, E. 3918
Pollock, C. J. 267, 1962, 4078, 6296, 6300, 8060
Polygalova, O. O. 5455
Poma, I. 1095
Poma, N. G. 2461
Pomeranz, Y. 7162
Pomeroy, M. K. 1860, 2343, 8674
Pommer, G. 4639, 8011
Poneleit, C. G. 128
Pongsakul, P. 794
Poničan, J. 2852, 8401
Ponkia, H. P. 8396
Ponnuswamy, K. 8745
Ponomarenko, S. V. 52, 3454
Ponte-Freitas, A. 5431
Pontes, O. F. S. 2351
Pontis, H. G. 3175
Pop, I. 638
Popa, T. 468
Popay, A. J. 7107
Pope, A. J. 5482
Pope, D. G. 8098
Popenda, M. 4405
Popescu, A. 638
Popescu, C. 3279, 7327
Popineau, Y. 41
Popov, G. F. 1351
Popov, M. D. 8703
Popova, G. I. 3202
Popova, T. N. 1531, 7609
Popović, M. 3942
Popovici, D. 7706
Porfiri, O. 961, 3919, 6631
Pörksen, N. 2975
Porpiglia, P. J. 786
Portch, S. 1357
Porter, D. M. 8387
Porter, G. A. 5955, 5968
Porter, J. H. 2645
Porter, J. R. 593, 2506, 2514, 7188
Porter, P. S. 7898
Porter, Q. N. 5804
Porthé, G. 8450
Portillo, F. 8776
Portillo, R. B. 1185
Portis, A. R., Jr. 3825, 6166
Portmann, P. A. 4818
Porwal, B. L. 3598, 6076, 7839
Porwal, M. K. 1089, 2882
Porzucek, H. 381
Poschenrieder, C. 5357
Pospíšilová, J. 5187
Post-Beittenmiller, D. 2208, 5797
Posthumas, A. C. 8797
Postiglione, L. 371
Postnikov, A. N. 5165
Postnikov, A. V. 2378
Poston, D. H. 4232
Poswal, M. A. T. 1819
Potdar, M. B. 6618
Potdar, M. V. 7500, 8367
Potdukhe, N. R. 8280
Pothiraj, P. 8240
Potkonjak, S. 8199
Potluri, S. D. P. 5992
Potter, R. H. 967
Pottker, D. 753
Potts, M. J. 2921
Potts, W. E. 8802
Potty, V. P. 4508
Pouénat, M. L. 4598
Poulton, P. R. 8010
Poupard-Caron, F. 2935
Pouzet, A. 2332
Pouzet, D. 2379
Povarnă, F. 38, 76
Povilaitis, J. 8532
Powell, J. B. 758
Powell, J. M. 1582, 7472, 8295
Powell, P. 6330
Powelson, M. L. 4454
Power, J. B. 907
Power, J. F. 6829
Powls, R. 4308
Powlson, D. S. 518, 8010
Poznański, M. 714-716, 7238, 7242
Pozueta-Romero, J. 4952
Prabakaran, J. 3500
Prabhakar, A. S. 5218
Prabhakar, P. S. 985
Prabhakaran, N. K. 1898, 2370
Prabhakaran, P. V. 7895
Prabhakaran Nair, K. P. 2808
Prabhu, K. V. 8035
Pradeep Kumar, G. 5827
Pradet, A. 799, 2615, 5575, 6956
Pradhan, A. C. 7480
Pradhan, D. S. 3417
Pradhan, L. 6695, 7403
Pradhan, N. K. 5112
Prado, F. E. 1039
Prakash, A. 883
Prakash, G. 4318, 6799
Prakash, J. 5121
Prakash, K. S. 2006
Prakash, L. 921
Prakash, N. 1556
Prakash, S. 1874, 8689
Prakash, V. 4588, 5705, 7203
Prakasha, N. D. 7786
Prakesh, H. S. 5701
Prangnell, R. 7919
Pranoto, F. L. 8584
Prasad, A. S. R. 218, 3589
Prasad, B. 8159
Prasad, D. 7525
Prasad, D. D. K. 4190
Prasad, F. M. 4980, 6980
Prasad, J. 7496
Prasad, K. 6791, 8482
Prasad, K. V. K. 5413
Prasad, L. C. 2544
Prasad, M. 5325
Prasad, M. V. R. 2811, 5785
Prasad, N. K. 539, 3742, 6962
Prasad, P. V. D. 5992
Prasad, R. 2757, 5325, 6257, 6790, 8232
Prasad, R. N. 1033, 4847, 5783, 8276
Prasad, R. N. D. 1060
Prasad, S. 481
Prasad, S. R. 337, 507, 3338
Prasad, T. N. 1870, 6414
Prasad, T. V. R. 3572, 4965, 7337
Prasad, U. K. 1870, 6414
Prasad, V. B. 1735
Prasertsongskun, S. 6916
Prat, R. 7932-7933
Prathapasenan, G. 921, 5096
Pratibha, G. 8002
Pratley, J. E. 6194

Pratt, L. H. 1450, 2786, 3432, 8101-8102
Prausse, A. 7494
Pravati Singh 7654
Precetti, C. J. 7219
Preeyagrysorn, O. 1967
Preez, C. C. du 46, 660, 6236
Pregno, L. M. 403
Preisig, C. L. 3766
Preiss, J. 3823, 4022, 8130
Premachandra, G. S. 1591, 4880
Prendergast, J. B. 4678
Press, M. C. 6605
Préstamo, G. 8577
Preston, K. R. 5463, 8078
Pretorius, D. C. 1321
Pretzschel, M. 6180
Prew, R. D. 6633, 7998
Price, D. N. 5815
Price, J. C. 3097, 8804
Prihar, R. S. 3731
Prihar, S. S. 6, 942, 5411, 5478, 6246
Prikhod'ko, N. V. 4665
Princen, L. H. 6083
Prine, G. M. 3039
Pringle, H. C., III 276
Pringle, K. L. 243
Prins, H. de 4676
Prior, S. A. 758, 4330
Prioul, J. L. 4960
Prishchepov, S. N. 3160
Pritchard, J. 8175
Pritchard, M. K. 5208
Priyotomo, D. H. 4545
Probert, R. J. 2574, 6551
Procházka, F. 6358
Procházka, S. 4765
Prodan, I. 101
Prodan, M. 101
Prodoehl, K. A. 3624
Prokowski, Z. 7946
Prome, J. C. 8519
Prośba-Białczyk, U. 2923
Proshin, A. N. 7074
Proshkin, V. A. 32
Protacio, C. M. 494
Prud'homme, M. P. 5242, 5244
Prudnikov, V. A. 3060
Prugar, J. 6874, 8806
Prusakova, L. D. 1824
Przemeck, E. 4744
Pržerodskytė, J. 5328
Przeździecki, Z. 4570
Przybylska, J. 6824
Pšenáková, T. 3293
Ptak, B. 3128
Puckridge, D. W. 872
Pueppke, S. G. 3502, 6681
Puga, B. E. 8544
Pugnaire, F. I. 7272
Puhakainen, M. 2511
Pujol, B. 698
Pulkrábek, J. 1120, 2909
Pulli, S. 5533, 6973
Pülschen, L. 44
Puneva, I. 8732
Punia, R. C. 1739
Punia, S. S. 953, 5427, 8244
Puntarulo, S. 3489
Punyawardena, B. V. R. 7369
Puolimatka, M. 5533
Puponin, A. I. 3226
Purchase, J. L. 606
Puri, K. D. 7602
Puri, K. P. 3212
Puri, S. 3119
Purkayastha, R. P. 8340
Purnhauser, L. 2501, 7174, 8067
Purohit, K. K. 6137, 7125
Purohit, S. 5827
Purushothaman, S. 4224, 6686, 8227
Purves, J. V. 4860
Purwito, A. 8584
Puschner, C. 2929
Pushkin, A. V. 8415
Puste, A. M. 6479, 6494, 8738
Putintsev, A. F. 1676
Putland, P. S. 6771
Putnam, D. H. 1108, 1110, 1587, 1839, 4166, 4407, 4607, 4643
Putten, P. E. L. van der 790
Putyrski, I. N. 4029
Putz, B. 3658-3659, 3673
Putzer, A. 3745
P'yanykh, V. P. 1678
Qafoku, N. 2112
Qayyum, S. M. 2316
Qayyun, S. M. 8455
Qi, A. M. 8345
Qi, J. 2965
Qi, X. Q. 2776
Qian, J. H. 1547
Qian, L. Z. 262
Qian, Q. H. 3152
Qian, X. Y. 8036
Qian, Y. C. 2790, 3497
Qian, Z. H. 7427
Qiao, J. X. 876
Qin, D. H. 6744
Qin, G. W. 677
Qin, S. C. 4735
Qin, S. J. 8036
Qiu, F. 2960
Qiu, J. 1632, 2643, 8442
Qiu, J. S. 5739
Qiu, J. X. 5748
Qiu, L. C. 5627
Quaggio, J. A. 7457
Quaglietta, F. 935
Quaizi, M. F. 4391
Quaranta, F. 7335
Quarmby, N. A. 3858
Quartacci, M. F. 8663
Quasem, A. 5372
Quatrano, R. S. 2389
Que, Y. M. 5452
Quebedeaux, J. P. 4631
Quebedeaux, K. L. 4631
Quesenberry, K. H. 7472
Quetin, P. 2300
Quevedo, M. A. 1164
Qui, T. C. 6576
Quick, J. S. 4743
Quick, W. P. 4595
Quilez, D. 8142
Quintana, J. O. 6430
Quintanilha, A. C. 1202
Quintos, A. T. 3408
Quisenberry, J. E. 1825, 8628
Qureshi, J. A. 3956
Ra, D. Y. 3024
Raba, A. 1911
Rabie, K. A. E. 3540, 7626-7627, 7755-7756
Rabie, R. K. 8025
Rabinovich, G. Yu. 1910
Rabinovitch-Chable, H. 4598, 7798
Rabotti, G. 4070
Rached, E. M. 2533
Rachewad, S. N. 6963
Rachman, A. 4594
Racke, J. 2297
Râclea, C. 7150
Racsko, P. 8090
Racz, G. J. 2015
Raczkowski, C. W. 7296
Radchenko, N. S. 6347
Radder, G. D. 2165, 7445
Raddy, C. V. R. 8373
Radford, B. J. 602, 1583, 5487, 6587
Radin, J. W. 1171, 1191, 2961
Radoglou, K. M. 346-347, 3552
Radosevich, S. R. 1235
Radwan, F. I. 7498
Radwan, S. A. 107
Radwan, S. M. 8426, 8613
Rady, M. A. 3273, 3413
Radyuk, M. S. 7284
Radyuk, V. A. 6002
Rae, A. L. 4423
Raemakers, C. J. J. M. 5216, 6015
Raevskiĭ, O. A. 7074
Rafey, A. 7294
Rafique, N. T. 7714
Rafiquee, M. M. 6078
Raghav, M. 3637
Raghavaiah, C. V. 2656, 7855, 7857
Raghavendra, A. S. 1045, 7011-7012
Raghavulu, P. 203
Raghbir Singh 3151, 3907
Raghu, J. S. 479, 7511
Raghunath, K. 2810
Raghuwanshi, R. K. S. 7141
Ragimov, V. 1180
Ragland, M. 4268
Ragni, P. 599
Ragupathi, N. 7529
Rahate, R. B. 6700
Raheja, R. K. 1187
Rahi, H. S. 33
Rahier, A. 802
Råhlén, L. 470
Rahman, A. F. M. 8022
Rahman, H. 1876
Rahman, L. 1244
Rahman, M. 844
Rahman, S. 3789, 7387, 7404, 8715
Rahmatullah 5579
Rahn, C. R. 727
Rai, B. 635, 1208, 1538, 4581-4582
Rai, K. N. 950, 952
Rai, L. 5350
Rai, M. 1209-1210, 1872
Rai, R. 2868, 8498
Rai, R. D. 6815
Rai, R. K. 6129, 7881
Rai, R. N. 4381, 6146, 6477
Rai, R. S. V. 6133, 6584
Rai, V. K. 483, 7625
Raibuh, A. 161
Raij, B. van 3468
Raikhelkar, S. V. 3730, 5250, 6422
Raikhman, L. A. 74
Raĭko, A. P. 383
Raimbault, B. A. 757
Raina, T. S. 5547
Rainbothe, S. T. 5531
Rainchwar, S. P. 6893
Raj, S. 3711
Raj Singh 3815, 4586
Rajagopal, A. 6113, 6686, 7880
Rajagopal, A. S. M. 4139
Rajak, S. 7055
Rajamanickam, B. 5868
Rajan, M. S. S. 1087
Rajangam, M. 923
Rajaram, K. P. 912
Rajasekaran, S. 1270, 3038, 3796, 4369, 5298, 5300, 5303, 5307, 5326, 7019-7020, 7034, 7885
Rajashekar, B. G. 448
Rajbdandari, N. P. 1296
Rajdhar 8288
Rajeevan, M. S. 8700
Rajegowda, M. B. 2328
Rajendra Gupta 8525
Rajendra Singh 7653
Rajesekaram, S. 8723
Rajgire, H. J. 877
Rajinder Singh 3700
Rajkai, K. 8200
Rajkhowa, D. J. 8457
Rajni, K. 7781
Rajnpreht, J. 6839
Rajput, M. K. K. 2316, 8455
Rajput, R. K. 922
Rajput, R. L. 981, 1851, 5720, 6641, 6942
Rajput, S. G. 3610
Raju, A. S. 2816
Raju, C. S. 1206
Raju, D. B. 2884
Raju, D. V. M. 4609
Raju, D. V. N. 1597
Raju, G. N. 2742
Raju, G. S. 3352
Raju, R. A. 875
Rajvir Singh 5871, 7390, 7989
Rakhimbaev, I. R. 8068
Rakhmatov, R. 1168
Rakitin, V. Yu. 1827
Rakova, N. M. 324
Ralhan, P. K. 1972
Ralph, W. 3917, 7171
Ralston, D. F. 3474
Ram, B. 1348, 3520
Ram, C. 633, 1739
Ram, G. 7807, 7836, 8381
Ram, H. 2705, 5885, 7667
Ram, H. H. 1622
Ram, M. 1033, 4847, 8276
Ram, P. 3614
Ram, P. C. 5422, 8478
Ram, S. 7470
Ram Singh 1094, 6981
Ramachandraiah, D. 3415
Ramachandran, T. K. 2813
Ramachandran, V. 566
Ramachandran, V. S. 1598
Ramachandrappa, B. K. 6694, 7566, 7570
Ramadass 3757
Ramaiah, N. V. 8002
Ramaiah, R. 4387
Ramakrishna, A. 6704, 6805
Ramakrishna, Y. S. 7478
Ramakumar, P. V. 7407-7408
Ramalho, M. A. P. 4042
Ramalingaswamy, K. 5304
Ramamoorthy, K. 5041, 5317, 6490, 7773
Ramamurthi Jambunathan 5690
Raman, D. R. 2552
Raman, S. 4276
Ramanathan, G. 7471
Ramanathan, K. 5307, 7885
Ramanathan, S. P. 835
Ramanathan, T. 2813
Ramani, K. J. 6574
Ramani, S. 1294
Ramanjaneyulu, W. 4273
Ramanujam, M. P. 7583
Ramanujam, T. 5317
Ramasamy, C. 2879
Ramasamy, K. 3500
Ramasamy, M. 6130, 6781
Ramasamy, P. 1111
Ramaswami, C. 835, 5723
Ramaswami, P. P. 211
Ramaswamy, K. R. 4185
Ramazanova, N. I. 8056
Ramdoss, G. 3513
Ramesh, K. 8392
Ramgraber, L. 1427
Ramiah, S. 6539, 7027
Ramig, R. E. 6234
Ramírez, C. 1543
Ramírez, E. 7437
Ramirez, E. 4149
Ramirez-Saad, H. 515
Ramos, A. D. 1164
Ramos, J. A. de O. 8443
Ramos, J. M. 717, 744, 8147
Ramos, M. L. G. 2793
Ramsay, G. 2845
Ramseur, E. L. 7458
Ramteke, S. D. 1674-1675
Ramulu, C. A. 7686
Ramvir Singh 6775
Rana, D. S. 1243, 1868, 4170, 4908, 6425
Rana, G. 1009
Rana, K. S. 8520
Rana, M. C. 6966
Rana, N. S. 7710
Rana, O. S. 6891
Ranalli, P. 4295, 4334, 5993
Ranbir Singh 704
Randall, D. D. 1633, 2209, 2214, 3826, 6726
Randall, G. W. 3459
Randall, P. J. 3108, 7176
Randhawa, H. S. 4955
Randhawa, K. S. 5162
Randhawa, N. S. 4737
Randhir Singh 2396, 3599, 3938, 6291, 8635
Rando, E. M. 1202
Ranells, N. N. 4043
Ranganathan, T. B. 5646
Rangappa, M. 1644-1645

Rangasamy, A. 4894
Rangasamy, P. 1111
Rangasamy, S. R. 2813
Rangasamy, S. R. S. 943, 4939
Rangel, J. A. 8543
Rangelova, V. N. 3617
Rangiah, P. K. 7019
Rangil Singh 1741
Rani, B. P. 2806
Rani, D. 2248
Rani, N. R. A. 8638
Rani, R. 3330, 7592
Ranieri, A. 3974
Ranieri, R. 961
Ranjeet Singh 8465-8467
Ranjeva, R. 7065
Rank, B. 3985-3986
Ranson, J. 8172
Ranst, E. van 4097, 5459
Rantrua, F. 7958
Rao, A. G. 169
Rao, A. H. 5662
Rao, A. M. 3458, 7431-7432
Rao, A. N. 359
Rao, A. V. 218, 1580
Rao, A. Y. 4289
Rao, C. H. N. 4941
Rao, C. N. 3379
Rao, C. P. 1597, 7850
Rao, C. S. 218, 3589
Rao, D. 7686
Rao, D. L. N. 2263
Rao, D. M. R. 7784
Rao, D. S. R. M. 1207, 3129, 5404
Rao, D. V. M. 2801, 7562-7563
Rao, D. V. S. 1732
Rao, G. N. 4162
Rao, G. P. 7834
Rao, G. R. 203
Rao, I. V. S. 2801, 6895, 7563, 7567
Rao, J. 883
Rao, J. P. 1274
Rao, J. R. 6536
Rao, J. S. P. 8638
Rao, J. V. 1212
Rao, J. V. R. B. 1274
Rao, K. K. 4289
Rao, K. K. P. 7015
Rao, K. L. 1283, 1597, 4609
Rao, K. L. N. 3446
Rao, K. P. 1274
Rao, K. R. 4273
Rao, K. S. 1549, 3004, 4113
Rao, K. V. 4910, 5850
Rao, K. V. G. K. 434, 3971
Rao, K. V. P. 5024
Rao, L. 5098
Rao, L. J. 8320
Rao, M. 1732
Rao, M. L. N. 5623
Rao, M. P. 2816
Rao, M. R. 1489
Rao, M. R. G. 2603
Rao, M. R. K. 3719
Rao, M. S. N. 4588
Rao, M. V. 6501, 7053, 7552
Rao, M. V. B. 7407-7408
Rao, N. H. 837
Rao, N. P. 7851-7852
Rao, N. R. 2331
Rao, N. S. 5690
Rao, N. V. 1286
Rao, P. 8240
Rao, P. N. 1732, 5308
Rao, P. P. 5142
Rao, P. S. 4191
Rao, R. 1724, 1729, 4371
Rao, R. B. N. 7851-7852
Rao, R. C. N. 6712, 7980
Rao, S. C. 3123
Rao, S. P. 4135, 5624, 6486
Rao, S. S. 261, 956
Rao, T. K. V. V. M. 1274, 1597
Rao, T. S. 1734
Rao, U. P. 6535-6536
Rao, V. L. V. P. 1286
Rao, V. M. 6712
Rao, V. P. 1206, 3730, 3733, 5250, 8320, 8737
Rao, V. R. 1274
Rao, V. U. 3440, 4586, 4758
Rao, Y. L. C. 6703
Raper, C. D., Jr. 2221, 5293, 6661
Rapi, B. 254
Rapp, M. 7257
Raschi, A. 2789
Raschke, K. 5793
Rashid, M. 5640, 6520, 8274
Rashid, M. H. 5372
Rashid, M. M. 5948
Rashid, M. T. 2000
Rashidov, N. M. 5893
Rashwan, M. R. A. 3832-3833
Rasiah, V. 2781
Rasjid, H. 5643, 6505
Rask, L. 4587
Raskin, I. 3830, 6092
Raskin, V. I. 6388
Rasmussen, J. 1680
Rasmussen, M. S. 2175
Rasmussen, O. 1864, 4577, 6069
Rasmussen, P. E. 3124
Rasmussen, U. 2991, 4660
Rasmusson, A. G. 8579
Rasocha, V. 8806
Rassadina, V. V. 5449, 8307
Rasulov, B. Kh. 2324, 4533
Rataj, V. 8401
Ratajczak, H. 3115
Ratajczak, K. 7614
Rataul, H. S. 6660
Ratcliffe, R. G. 173, 4084, 4860, 4878, 8203
Rathee, S. S. 953
Rathi, G. S. 3351
Rathi, K. S. 6847, 7129
Rathjen, A. J. 7601
Rathod, R. K. 7448, 8736
Rathore, A. L. 4116, 5394, 6514, 7413
Rathore, O. P. 506, 6115, 8710
Rathore, P. S. 7474
Rathore, R. S. 7674-7676
Rathore, S. 611, 7288
Rathore, S. S. 5327, 6691, 8021
Rathore, V. S. 3003, 4585
Ratković, S. 4085
Ratnam, B. P. 2393
Ratnasinghe, D. S. 8151
Ratnayake, C. 4670
Ratnayake, S. 988, 3479
Rattan, R. K. 226
Rattan Singh 4359, 4384, 7677
Rattray, J. 8824
Rauf, A. 1397, 5232
Raun, W. R. 3980, 5571
Raut, R. S. 6963, 8487
Raut, V. M. 2756, 4228
Ravanel, P. 5431
Raveendran, T. S. 2812
Ravelo, A. 8730
Raven, J. A. 2398, 6186
Ravi, V. 6009
Ravichandran, V. K. 5723
Ravina, I. 175, 3328
Ravkov, E. V. 4402
Ravnikar, M. 5989
Ravuri, V. 5018, 5774
Rawankar, H. N. 6896
Rawat, A. K. 8501
Rawat, C. R. 5707
Rawat, D. S. 3757
Rawlings, J. O. 8206
Rawlins, S. L. 5769
Rawsthorne, S. 7067
Ray, N. 6570
Ray, P. 6558
Ray, P. M. 1686, 1698
Ray Singh 1670
Rayar, A. J. 5631, 8334
Rayle, D. L. 1326
Raymer, P. L. 466, 1234, 1857-1858, 4806, 6434-6435
Raymond, G. 2314
Raymond, P. 799, 2615, 5575, 6956
Raz, V. 1881, 7858
Razera, L. F. 2134
Re, P. del 4295, 4334
Rea, P. A. 1721
Read, B. J. 4820
Read, D. W. L. 3145
Read, J. 1942
Read, M. A. 1301
Read, P. E. 6760, 7646
Read, P. J. 1784
Reagan, J. L. 3281
Reagan, T. E. 4631
Reaves, L. L. 1171
Rebafka, F. P. 3438, 7573
Reda, A. A. 5131
Reda, S. 8560
Redaelli, R. 3919, 6631
Reddana, P. 7726
Redden, R. 5084
Reddy, A. G. S. 3509, 8386
Reddy, A. R. 5662
Reddy, B. B. 6484, 8320
Reddy, B. G. M. 4965
Reddy, B. M. 8632
Reddy, B. N. 1212
Reddy, C. C. 7726
Reddy, C. M. 3514
Reddy, D. L. 3415
Reddy, D. R. 6484, 8320
Reddy, D. S. 3514
Reddy, G. M. 3225, 3404
Reddy, G. R. 7726
Reddy, G. S. 3419, 4273, 4959, 8517
Reddy, J. N. 864
Reddy, K. A. 875, 2881
Reddy, K. B. 3514
Reddy, K. C. 4187
Reddy, K. C. K. 6696
Reddy, K. M. 6770, 8517
Reddy, K. R. 7771
Reddy, K. R. K. 5662, 7834
Reddy, K. S. 6786
Reddy, L. J. 3509, 8386
Reddy, L. R. 7657
Reddy, M. D. 2689, 5634, 6484
Reddy, M. G. 5114, 6699
Reddy, M. G. R. K. 6699
Reddy, M. M. 4273
Reddy, M. S. 1735
Reddy, M. S. S. 6699
Reddy, M. V. 1734, 6797, 6806
Reddy, N. S. 1549
Reddy, P. P. 461, 1549
Reddy, P. S. 3587, 3612, 5019
Reddy, S. A. 1709, 8517
Reddy, S. C. 1090, 6770
Reddy, S. L. N. 6704, 6805
Reddy, S. N. 1665
Reddy, S. R. 2806, 6699
Reddy, T. N. V. 3338
Reddy, T. P. 4579, 7784
Reddy, T. R. 203
Reddy, T. Y. 1090, 3352, 6770
Reddy, V. D. 3225
Reddy, V. N. 2816
Reddy, V. R. 3704, 5235, 6797
Redhu, A. S. 5427
Redinbaugh, M. G. 3289, 7353
Reding, H. K. 2696
Red'kina, T. V. 8352
Red'ko, T. P. 7597
Ree, D. W. 308, 852
Reed, D. W. 1860
Reeder, R. 5717
Rees, D. H. 837
Rees, H. van 6194
Rees, R. M. 6256
Rees, T. ap 3070, 8172
Reese, K. 4797
Reese, P. F., Jr. 7546
Reeves, D. W. 435, 758, 1490, 4054, 7132
Reeves, H. E. 6594
Reeves, T. G. 1977
Regaraju, G. 2370
Regassa Ensermu 2019
Reger, B. F. 1425
Reger, B. J. 1595
Reggiani, R. 2680, 4754, 8254
Regina, A. 216
Rego, G. 4045
Regoli, J. 4461
Reguieg, L. 6802
Rehab, F. I. 7757-7758, 7761-7762
Rehm, G. W. 4059
Rehman, F. 6520
Reichert, N. A. 1832
Reicosky, D. 25
Reicosky, D. C. 825, 4252
Reid, C. D. 8627
Reid, D. M. 1847, 2336, 4829, 8136
Reid, J. B. 1692, 1695, 5055, 7617, 7624
Reid, J. F. 3335, 4977
Reid, J. L. 4288
Reid, J. S. G. 7687
Reid, R. L. 591
Reid, W. S. 5556
Reijntjes, C. 1346
Reimers, P. J. 892
Reinbothe, C. 4025
Reinbothe, S. 4025
Reinds, G. J. 701
Reinecke, D. 8419
Reinecke, D. M. 2216
Reĭnfel'd, L. B. 970
Reinfeld, L. B. 970
Reinhard, S. 4320
Reinhardt, C. F. 4848
Reining, L. 1371
Reis, D. 2247
Reis, E. L. 1071
Reis, E. M. 601, 974, 4207
Reisenauer, H. M. 8054
Rek, J. 2933
Rekhi, R. S. 6487
Rekoslavskaya, N. I. 1920, 3174
Relan, P. S. 630
Rema, S. 3597
Remillard, M. 4844
Remus, R. 3204
Rémy, R. 1795
Ren, H. Z. 5754
Ren, J. 795
Ren, M. 6275
Ren, Y. Y. 890
Renard, C. A. 7472
Renard, M. 456, 2347
Rengar, M. 5499
Rengaraju, G. 1898
Rengasamy, J. I. 7617, 7624
Rengel, Z. 1320
Rennenberg, H. 4597
Renner, K. A. 2766, 4233
Rensburg, J. B. J. van 243
Rensburg, L. van 6098
Rensburg, P. A. J. van 816
Renu Gogna 3732
Renwick, K. F. 5343
Renz, A. 7723-7724
Repa, Š. 1488
Rerkasem, B. 6497, 7047, 7503, 7650, 7691
Research & Training Newsletter 1064
Resende, M. 1074
Reshid, K. 515
Resketö, P. 6675
Resti, R. 2789
Reta Sánchez, D. G. 4050
Rethman, N. F. G. 3776
Retka, M. T. 5551
Reust, W. 2933, 6004, 7452, 7709, 8580
Reuzeau, C. 2985
Revanna, H. P. 1551
Revell, C. K. 5910
Revellin, C. 2795
Revilleza, M. J. R. 4887
Reviron, M. P. 5280
Rey, C. 7682
Reyes, I. 5567
Reyes de Alvarez, I. 5567
Reymond, P. 1925, 5812
Reyneri, A. 7519
Reynolds, C. M. 5555
Reynolds, D. B. 2764, 3478, 6651
Reynolds, M. P. 2050, 2432
Reynoso, E. 2616
Reynoso, R. Y. 3705

Rezende, S. T. 1000
Rhee, M. S. 7865
Rheenen, H. A. van 1103
Rho, C. U. 274
Rho, J. Y. 3009
Rho, T. H. 424, 6476
Rhoads, F. M. 2525
Rhodes, A. M. 3365
Rhodes, D. 4962
Ribas-Carbo, M. 2132, 7530
Ribaut, J. M. 6455
Ribeiro, M. T. 7360
Ricaud, C. 400, 3034, 4622
Ricci, A. 1042, 4602
Ricci, O. R. 2758
Ricci, P. 487
Rice, W. A. 7044
Richard, L. 1884
Richards, K. D. 7175
Richards, R. A. 3082, 3108
Richardson, C. M. 6343
Richardson, M. 7420
Richter, H. 2869, 7217
Richter, K. 7321, 7897
Richter, O. 1138
Rickard, J. E. 2953
Rickauer, M. 4598
Ricker, K. E. 5191
Rideout, J. W. 5293, 6661
Ridge, R. 7879
Ridge, R. W. 2055
Riedel, A. 7276
Riedel, E. C. 4409
Riedel, R. M. 5732
Riedell, W. E. 1513
Ries, S. 6174, 8176
Rigaud, M. 4598, 7798
Rihouey, C. 7775
Říhová, L. 1886
Rijal, D. K. 3508, 5511-5512, 5619, 6221, 7049, 7089
Rijks, D. 2409
Rikin, A. 1826, 4536
Riley, M. M. 1396, 7187
Riley, R. H. 7638
Rimár, J. 1438
Rimmer, S. R. 464, 3752
Rimmington, G. M. 5476
Římsa, V. 1755
Rinaldi, M. 23, 3044, 8400, 8790
Rincón, M. 657
Rindina, S. C. 2318
Riník, E. 1372
Rintelen, P. M. 6141
Río, L. A. del 5061
Rioux, K. P. 1860
Rioux, R. 7715
Rip, J. W. 712
Ripoll, C. 7775
Ripp, K. 3490
Ristic, Z. 6458, 6465
Ritchey, K. D. 3197, 7209, 8350
Ritchie, G. S. P. 5439
Ritchie, J. T. 4702
Ritchie, R. M. 1810, 5536
Ritchie, S. W. 2049
Rittatore, C. G. 2803
Ritter, W. F. 3465, 3615
Ritter Ortiz, W. 4262
Rivas Jacobo, I. C. 8314
Rivelli, A. R. 935, 941
Rivera, E. 1163
Rivero, C. 7537
Rivett, D. E. 3004
Rizzi, E. 6450
Rizzo, V. 7, 23, 1590, 3044, 8400, 8790
Rizzotto, N. 1147
Ro-Poulsen, H. 1439
Roach, B. T. 6124
Roach, S. H. 4516
Röbbelen, G. 2840, 4331
Robbertse, P. J. 2897
Robert, D. 2052
Roberts, A. J. 3634
Roberts, B. A. 2320
Roberts, C. L. 4529
Roberts, D. M. 3821, 6663, 8337
Roberts, E. 8345
Roberts, E. H. 235, 2632, 5762
Roberts, E. M. 2831
Roberts, J. K. M. 4857
Roberts, S. J. 8406
Roberts, W. 4503
Robertson, D. G. 4237, 4283-4284
Robertson, J. A. 4813, 7819
Robertson, M. J. 7460-7461, 7463, 7690
Robin, J. M. 2346
Robin, P. 2187
Robinson, D. G. 5052, 5374, 5818
Robinson, J. 1412
Robinson, J. G. 8221
Robinson, J. M. 996
Robinson, N. J. 3066
Robinson, S. A. 7530
Robinson, S. P. 333
Robson, A. 5438
Robson, A. D. 3091, 3608, 6155, 8512
Roca, J. 1807
Roca de Doyle, M. M. 787
Roca de Togores, F. 744
Rocchetti, G. 8029
Rocha, V. S. 1000
Rochat, C. 1036
Rochelle, T. C. P. 2641
Rocher, J. P. 4960
Rochester, I. J. 1167
Rochette, P. 8148
Rocius, S. 8532
Rockenbach, O. C. 4654
Rodd, A. V. 2469
Rode, C. 821
Rode, J. 5989
Rodella, A. A. 5306
Roder, W. 7006
Rodermel, S. R. 4595
Rodge, R. P. 2335, 3736, 4611
Rodionova, M. I. 7340
Rodon, U. 6959
Rodríguez-Sotres, R. 155
Rodrigues, B. F. 4411, 5902
Rodrigues, M. 2931, 7348
Rodríguez, A. B. 1771
Rodriguez, F. M. 4887
Rodriguez, R. L. 893, 8255
Rodríguez, S. 1719
Rodriguez, S. 4149
Rodríguez, T. 3670
Rodríguez-García, M. I. 2290
Rodriguez Gordillo, J. M. 1958
Rodríguez-Kábana, R. 1673, 4237, 4283-4284, 5733
Rodríguez Q., P. 8545
Rodríguez S., N. 3887
Roelants, W. 4431, 5927, 7701
Roeske, C. A. 3304
Rogachenko, A. D. 7944
Rogall, G. 2842
Rogalski, L. 2443
Rogers, D. J. 2770
Rogers, H. H. 758, 4330
Rogers, J. C. 113
Rogers-Lewis, D. 3647
Rogers-Lewis, D. S. 3633
Rogóż, A. 549, 6161-6162
Rogozińska, I. 3655, 5961
Roh, T. H. 917
Rohan Singh 3688, 4381
Rohani, M. Y. 2684
Rohitashav Singh 7390
Röhricht, C. 1464, 3645, 5173, 7717
Roininen, J. 5533
Roisin, C. 2001
Rojek, M. 3080, 6179
Rojo, M. A. 1058
Roland, J. C. 2247
Roldan, M. 7814, 8776
Rolfe, B. G. 2055
Rolin, D. B. 5770-5771, 6444
Rolston, L. H. 8595
Rolston, M. P. 3448
Rom, C. R. 8589
Romagosa, I. 739, 2071, 4028
Roman, A. M. 7367
Roman, G. V. 7367
Roman, M. 437
Romanko, E. G. 4328, 8436
Romanov, G. A. 4199, 6169
Romanova, A. K. 6716
Romanova, L. M. 2546
Romero, L. 2859, 6059, 7740, 8582
Romeu, J. 7955
Römheld, V. 2031, 2609, 2646, 4862
Romito, L. 1590
Ron, M. M. 697
Ronde, J. A. de 2304, 5996
Rondeaux, G. 2130
Rood, S. B. 1752, 5862, 6067
Rood, T. 169
Room Singh 1107, 3354
Rooney, L. W. 3268
Roos, E. E. 4322, 8528
Ropot, E. S. 2677
Roques, F. P. 1032
Rös, M. 3027
Ros, R. 2683, 4920
Rosario, E. L. 754
Rose, I. A. 5728
Rose, J. 2211
Rosecrance, R. C. 127, 360
Rosellini, D. 4295, 4334
Rosema, A. 2404
Rosen, C. J. 2824
Rosenberg, E. 2372
Rosenberg, N. J. 577-581, 3862
Rosenow, D. T. 6604
Rosenthal, W. D. 251, 7444
Rosenzweig, C. 2515, 6329
Roses, O. E. 3311
Roskothen, P. 4331
Rosolem, C. A. 1708, 1975, 2182, 7582
Ross, C. W. 764, 8828
Ross, G. J. S. 1457
Ross, H. A. 1790, 2224
Ross, J. D. 7490
Ross, J. J. 1692
Rosset, R. 2124
Rossi, E. A. 2782
Rossignol, M. 6094
Rossini, F. 440
Rossouw, F. T. 5996
Rosswall, T. 5141
Rost, K. 8533-8534
Rost, T. L. 8423
Roszak, W. 2728
Rotar', V. I. 2595
Roth, B. T. 4035
Roth, D. 1931
Roth, H. 4764, 4896
Rothrock, C. S. 6331
Rothstein, S. J. 801, 2861
Roton, C. de 7856
Roubelakis-Angelakis, K. A. 6998
Rougé, P. 8450
Roughan, G. 2208, 5797
Roumen, E. C. 8246
Roustan, J. P. 457, 1849, 6957, 7813
Rout, D. 6695, 7403, 7493
Roux, J. le 606
Roux, S. J. 1040, 2832, 5051, 8422
Rovira, A. D. 6196
Rowell, P. 2054
Rowland, I. C. 4712
Rowland, R. 299
Rowland, R. A. 1075, 2244
Rowntree, E. G. 4475
Roy, B. C. 187, 6480
Roy, D. 4949
Roy, H. 4312, 5799
Roy, K. 2898, 6825
Roy, K. M. 465, 478
Roy, R. K. 1829
Roy, S. K. 16, 1498, 6243
Royer, M. 3017
Royo, A. 119, 1485, 5471, 8142
Royo, C. 2071, 3449
Royuela, M. 3168
Rozanov, V. V. 1148, 1788
Rozema, J. 2057, 3114, 4696
Rozhkova, N. D. 5593, 7357
Ruaro, G. 4295, 4334
Ruban, A. V. 320
Ruban, I. N. 2326
Rubanov, I. 1319
Rubanow, I. 1319
Rubenthaler, G. L. 6272
Rubets, N. M. 8165
Rubin, G. 3987
Rubin, R. 2498, 7197
Rubio H., R. 3978
Rück, A. 8177, 8182
Rudall, P. 3111
Ruddat, M. 6548
Rudelev, E. V. 4430
Rudich, J. 4486
Rüdiger, W. 6389
Rudnikas, J. G. 4896
Rudrapal, D. 4418
Rudravarapu Sridhar 3456
Rüegsegger, A. 2614, 5588
Ruelle, P. 6643
Ruengsakulrach, S. 5840
Rueter, S. 6664
Ruffle, S. V. 1683
Rufty, T. W., Jr. 538, 3289, 5739
Ruget, F. 826, 1518
Ruggiero, C. 1740
Ruiz, L. P. 1918
Ruiz-Nogueira, B. 8439
Ruiz-Torres, N. A. 1433
Ruiz Vega, J. 4684
Rukavichko, V. G. 6629
Rukuni, M. 2579
Rumpho, M. E. 2390, 4158
Rumyantseva, N. I. 8705
Rupaĭnene, O. 3951
Rupainienė, O. 3951
Rupela, O. P. 6805
Rupp, R. A. 5448
Ruppe, J. 4746-4747
Ruppel, S. 3204
Rüpping, E. 4023
Rusakov, G. A. 530
Rushalaza, V. G. 6603
Rusina, I. F. 6002
Russell, D. A. 2640, 8613
Russell, J. T. 4172
Russelle, M. P. 2101
Russo, V. 4503
Russo, V. M. 7630
Ruszkowski, M. 1982-1983, 1999
Rutskaya, S. I. 1132
Ryadovoĭ, V. A. 6347
Ryan, C. A. 1789, 8699
Ryan, C. M. 8083
Ryan, J. 2005, 7060, 7987
Ryan, P. R. 656, 658, 3298
Rybak, V. A. 1132
Ryberg, H. 1408
Ryberg, M. 664, 1408, 6298, 6301-6302, 8061, 8830
Rybik, O. F. 6855
Rybina, L. D. 2439
Rychener, M. 7193
Rydgren, B. 8312
Rykaczewska, K. 1140, 1809
Rymerson, R. T. 712
Ryser, U. 1072, 8621
Ryu, G. R. 4974
Ryu, H. Y. 4124
Ryu, I. S. 3007, 7846
Ryu, K. Y. 223
Ryu, S. B. 3668
Ryu, S. R. 4549, 7794
Ryu, Y. H. 100, 4804
Rzaev, I. 1179
Rzeszutek, I. 2298, 2920
Sa, T. M. 5739
Saade, M. 5088, 8756
Saarela, I. 5522
Saastamoinen, I. 2737
Sabaka, R. J. 975
Sabale, R. N. 7748
Sabater, B. 1479
Sabater, F. 2261
Saber, M. S. M. 3469
Sabino, N. P. 1817
Sabrah, R. E. A. 8025

Sabry, S. R. S. 2462
Sacchi, G. A. 5580
Sachan, P. L. 3384
Sachar, R. C. 5447, 8418
Sachdev, M. S. 847
Sachdev, P. 847, 6077
Sachs, M. 3890
Sachs, M. M. 2640
Sachs, T. 5082
Saczyńska, V. 1530
Sadana, U. S. 3930
Sadanandan, N. 4504, 4511-4512, 6022, 6024
Sadaria, S. G. 7135, 8369
Sadasivaiah, R. S. 40
Saden, D. 8748
Sader, R. 1542, 4248, 4274, 4563
Sadhu, A. C. 7446
Sadowski, H. 2270, 2291
Sadras, V. O. 455, 1213-1214, 1217, 6064, 6961, 7810, 8660
Saeed, F. A. 6658
Saenong, S. 1571
Saffigna, P. G. 1875, 4062-4063, 7315
Safina, G. F. 5455
Safiulin, N. M. 6900
Safta, I. 172
Saftner, R. A. 8166
Sagar, P. 5694
Sagare, B. N. 8382
Sage, R. F. 7013
Sagee, M. 8652
Sager, J. C. 55, 5432
Saggar, S. 6246
Saghin, G. 3657, 7720
Sági, F. 679, 3958
Sagisaka, S. 4774, 6295
Sagiv, B. 8556
Saglio, P. H. 2127
Sah, R. P. 8490
Saha, A. 516
Saha, P. 5076
Saha, S. 5054
Saha, S. K. 2519
Saha, U. K. 8022
Sahai, B. 2520
Saharan, N. 7449, 7912
Sahay, V. K. 6690
Sahi, H. P. S. 3384
Sahoo, B. K. 609, 2669, 7124
Sahoo, K. M. 6500
Sahoo, N. C. 5718, 7905
Sahoo, P. N. 1079
Sahota, T. S. 5186, 5959, 8683
Sahu, G. 6543
Sahu, G. C. 7397
Sahu, M. I. 2316
Sahu, N. N. 7493
Sahu, P. K. 6977, 7829
Sahu, S. K. 6509, 6697
Saïb, L. R. 813
Said Rahman 3789
Saidi, R. 4684
Saifuzzaman, M. 16
Saiga, S. 3050
Saikia, L. 5622
Saikia, P. 4134
Saimoto, H. 7426
Saindon, G. 4264
Saini, A. D. 5883
Saini, H. K. 1845
Saini, H. S. 4768
Saini, J. P. 1008, 5755
St. Amand, P. C. 8595
St. Louis, D. G. 2181
Saint-Macary, H. 1358
St. Martin, S. K. 7520
Saio, K. 5008
Sairam, R. K. 3184
Saito, H. 5928-5929
Saito, K. 5835
Saito, M. 1660
Saito, T. 4933
Saito, Y. 2691
Saitoh, K. 887
Sajjad, M. S. 4914
Saka, H. 3377, 4931
Saka, V. W. 8359
Sakabe, T. 7544
Sakai, A. 2357
Sakai, E. 1715
Sakai, S. 838, 5097
Sakaki, T. 5085, 5665
Sakal, R. 5117
Sakalo, V. D. 3629, 8537
Sakamoto, H. 7492
Sakamoto, S. 3689
Sakashita, H. 5444
Saker, L. R. 4860
Sakharnaya Svekla 6835
Sakihama, N. 6385
Sakr, S. 389
Sakurada, H. 2691
Sakurai, A. 4933, 7426
Saladín, F. 1069
Salado-Navarro, L. 1007
Salahieh, H. 1484
Salahuddin, S. 6505
Salam, A. 1993, 5472, 7287
Salam, M. A. 8220, 8228, 8248
Salamini, F. 6450
Salardini, A. A. 3336, 5957-5958
Salaün, J. P. 2037, 8775
Salaz, M. S. 6095
Salazar, A. M. 4887
Salazar, P. 2602
Salazar Sosa, E. 8653
Salazari, A. 8210
Salcedo, G. 3952, 4028
Salchow, P. 1765
Saldarriaga V., A. 1786
Saleem, M. 299, 2630
Saleem, M. T. 6628
Salem, B. 8125
Salem, M. O. 5421
Salema, R. 2113, 5291, 8576
Salera, E. 1219, 2980
Salerno, G. L. 3175
Sales, B. H. L. N. 6885
Salette, J. 8769
Salgó, A. 3940
Salguero, J. 3217
Saliendra, N. Z. 1900
Salih, F. A. 7618
Salim, M. 822, 2000, 5579
Salim, R. 5066
Salimath, B. 8252
Salimath, P. M. 2884
Salinas M., Y. 8193
Salisbury, C. D. 1820
Salisbury, F. B. 8828
Sallantin, M. 1795, 5280
Salmanowicz, B. P. 2850, 5907
Salmi, A. 4461
Salminen, S. O. 5011
Salmon, D. F. 4004, 6352
Salmon, F. 802
Sal'nikov, A. I. 7008
Salomon, E. 4041, 7947
Salonen, J. 3166
Saloniemi, H. 2737
Salontai, A. 79
Saluja, D. 5447
Salunke, M. R. 1841
Salunkhe, A. N. 3790
Salunkhe, C. D. 1285
Salvatierra Fierro, R. 4262
Salvi, G. 8701
Salvioni, M. 1563
Salvucci, M. E. 3017
Salwa 1625
Salwa, S. G. 5722
Salzman, F. P. 2766, 4233
Salzwedel, J. L. 6727
Samal, K. C. 6573
Samander Singh 5416
Samanta, N. 513
Samantaray, S. 6776
Samantary, S. 7440
Samarasinghe, P. W. S. M. 2818
Samarghiţan, V. B. 135
Samejima, K. 1059, 4410, 4412, 5915
Samiullah, F. B. S. 5128
Sammons, D. J. 4012, 7167, 8306
Sammour, R. H. 7874
Samoedi, D. 4630
Samonte, S. O. P. B. 867
Sampath, R. K. 7910
Sampietro, A. R. 5985
Samra, J. S. 922
Samson, G. 1473
Samsonaŭ, U. P. 3906, 4005
Samsonidze, T. G. 8415
Samsudin, A. 2684
Samuel, A. M. 8826
Samuel Geleta 1997
Samuels, A. L. 741
Samuelson, M. 322
Samuelson, M. E. 1476
Samui, R. C. 8642
Samuilov, V. D. 2827
Samullah 4002
Samunder Singh 640, 5429
Samy, J. 5649
San Martín, C. 8066
Sanabria-Rodriguez, J. 4961
Sanbe, A. 4342
Sánchez, A. 2859
Sanchez, C. A. 6121
Sánchez, M. 3812
Sánchez, P. 1771
Sánchez, P. A. 2588
Sánchez-Bravo, J. 2261, 7681, 7683
Sánchez-Calle, I. M. 4395
Sánchez de Jiménez, E. 2616
Sánchez G., J. J. 1534, 8206
Sánchez Monge, E. 6213
Sánchez-Monge, R. 3952, 4028
Sánchez-Nieto, S. 155
Sánchez S., L. F. 4652
Sánchez-Yélamo, M. D. 1866
Sandelius, A. S. 290, 1700, 3177, 5058
Sandermann, H., Jr. 1259, 3068-3069
Sanders, D. 394, 4435, 5482
Sanders, G. E. 348
Sanders, P. L. 1714
Sanderson, J. B. 4014, 4231, 7719
Sandhu, B. S. 2636, 5540
Sandhu, K. S. 6246
Sandhu, P. S. 1845
Sandoval Villa, M. 8059
Sandukhadze, B. I. 2461, 3162
Sane, P. V. 6606
Saneoka, H. 1591, 4880
Sanford, D. A. van 652
Sangeeta 6811
Sangwan, P. S. 3907
Sangwan, R. S. 1136, 2971, 7703
Sangwan-Norreel, B. S. 1136, 7703
Sanjogta Uppal 8058
Sanka, M. 3435
Sankar, G. R. M. 3419, 6696, 8477
Sankar, M. 5118, 5889
Sankaran, N. 503, 3785, 5297
Sano, Y. 4945
Sans, L. M. A. 817
Sant Prasad 725
Santamaria, P. 8400
Santangelo, E. 4502
Sant'Anna, R. 986
Santelises, A. A. 2034
Santha, I. M. 3257
Santhaguru, K. 6623
Santhakumari, G. 8219
Santhi, P. 8745
Santilocchi, R. 8121
Santinelli, A. 2206
Santino, A. 2236
Santis, A. de 8191
Santiveri, P. 739, 2071
Santo, S. 5309, 5312
Santoiani, C. S. 3175
Santokh Singh 3771-3772
Santoni, V. 6094
Santonoceto, C. 8667, 8670
Santos, C. E. R. S. 2249
Santos, D. R. 2249
Santos, D. S. B. 247-248
Santos, D. S. B. dos 2239, 3564, 4161
Santos, H. 7348
Santos, H. L. dos 7453
Santos, H. P. dos 601, 753, 974, 1228, 3981, 4207
Santos, I. 2113, 8576
Santos, J. W. dos 426
Santos Amaral, A. dos 5667
Santos Filho, B. G. dos 2239, 3564
Šantrůček, J. 2354
Sanwo, M. M. 829
Sanyal, D. 6777
Sanz, A. 2683
Saoud, A. A. 3646
Saputro, S. E. 8727
Sarabhai, B. P. 1706
Saradadevi, K. 1045
Saradhi, P. P. 2349, 4583
Saraf, C. S. 2265, 2872, 4383, 5888, 7664
Sarafian, V. 1721
Saran, B. 6983
Sarandón, S. J. 618, 623, 3139
Sarangi, B. K. 1091
Saraswathy, P. 4512, 6022, 7558
Saraswati, R. 5908-5909
Sarath, G. 8341
Sarbjeet Singh 477
Sarbjit Kaur 4608
Sardana, S. 183, 5851, 6537
Sarić, M. R. 3942
Sarić, Z. 1013
Sarig, S. 3436
Sarir, M. S. 8014
Sarjit Singh 7033
Sarkadi, J. 528
Sarkar, A. 4542, 5144
Sarkar, A. A. 1019
Sarkar, A. K. 1400, 6261
Sarkar, A. K. D. 2003
Sarkar, M. K. 6488
Sarkar, P. K. 225
Sarkar, R. K. 513, 1008, 5755, 6503-6504
Sarker, A. B. 4543
Sarker, R. A. 1184
Sarker, S. 7122
Sarlach, R. S. 3714-3715, 6036
Sarma, B. K. 755, 6412
Sarma, C. B. 7855
Sarma, N. N. 3806
Sarma, P. S. 3446, 8517
Sarma, S. 6550
Sarma, Y. N. 7782
Sarmah, B. K. 3802
Sarmah, M. K. 1334
Sarmah, P. C. 6953
Sarno, R. 2317
Saroha, M. S. 7835
Sarojini, B. 5787
Sarom, M. 872
Sarpe, N. 638
Sarquis, J. I. 5614
Sarquís Ramírez, J. I. 3315
Sartori, L. 1139
Saruyama, H. 1573
Sarvesh, A. 4579, 7784
Sasaki, A. 2545, 3256
Sasaki, H. 6544
Sasaki, K. 7642
Sasaki, Y. 3368, 3368, 8420
Sasanelli, N. 7083
Sasano, N. 8216
Sasidhar, V. K. 6887, 7652
Sasikumar, B. 183, 5851
Sasse, J. M. 5804
Sastry, C. B. 359
Sastry, E. V. D. 7203
Sastry, J. A. 4278
Sastry, M. V. S. 6535
Satakopan, V. N. 3597, 5118, 5889
Satapathy, M. R. 7565
Sathasivan, K. 5855
Sathyavelu, A. 5300, 5307, 5326, 7034, 7885, 8723
Sati, P. C. 3520
Satiat-Jeunemaitre, B. 4361
Satjipanon, C. 2703
Sato, A. 675, 2449, 4409

Sato, F. 4658, 6997
Sato, K. 2447
Sato, M. 3856
Sato, T. 3409, 4140
Sato, Y. 200
Satoh, S. 3023
Satorre, E. H. 5258
Sattar, S. A. 187, 1559
Sattelmacher, B. 3296, 8170
Sattler, A. 1228
Satyanarayana, A. 349, 8460
Satyanarayana, V. 8002
Sau, F. 8439
Sauer, B. M. 6602
Sauerbeck, D. 3200, 3287, 3306, 4837
Saunders, J. W. 2914
Saunders, M. J. 2219
Saunier, P. A. 2129
Saurer, W. 636, 706, 711, 2025, 2748, 3155, 3220, 4741, 6273-6274, 6354-6355, 6372-6373
Sauter, M. 903
Savage, G. P. 8819
Savalgi, V. 3205
Savalgi, V. P. 3205
Savani, R. P. 311
Savant, N. K. 4113
Savatti, M. 79, 250
Savchenko, N. P. 3932
Savé, R. 8452
Savich, V. I. 3063
Savichene, Ė. 4344
Savičienė, E. 4329, 4344
Savidov, N. A. 6869, 8768
Savin, V. N. 813
Savithiry, S. 8176
Savoy, B. R. 3464
Sawada, S. 1002, 5399, 5445
Sawahata, H. 3690
Sawant, A. C. 4048
Sawant, A. R. 2979
Sawant, C. V. 4366
Sawarkar, S. D. 8734
Sawhney, J. S. 2590
Sawhney, S. K. 2834
Sawhney, V. K. 1862
Sawicka, B. 5951-5952, 5975
Sawyer, J. E. 1507, 4567
Saxena, K. B. 1734
Saxena, M. C. 2887, 3543-3544, 3601, 5820, 7620, 8505
Saxena, N. P. 2255, 8505
Saxena, O. P. 3891
Saxena, P. K. 376, 2819, 4416-4417, 4603, 5146
Saxena, R. P. 6813
Saxena, S. 3717
Saxena, S. C. 4982
Saxena, V. 4957
Saxena, Y. R. 7881
Saxton, A. M. 3478, 6651
Saxton, K. E. 2584
Saxton, M. J. 1789
Sayag, D. 2754
Sayag, D. R. 5900
Sayre, K. D. 2432
Sayyadian, K. 8015
Scacchi, A. 2564
Scagnozzi, A. 1522
Scalet, M. 70
Scalla, R. 7608
Scandalios, J. G. 4661
Scandiuzzi, E. 1584
Scarborough, R. W. 3465, 3615
Scarth, R. 464, 475, 3221, 3752
Schaaf, C. B. 7959
Schaafsma, T. J. 1471
Schaan, C. 5337
Schachtman, D. P. 3196
Schaefer, S. C. 8413
Schaerer, S. 6455
Schafer, B. M. 7072
Schäfer, E. 810, 7227, 7843
Schäfer, W. 5943
Schaffer, V. A. 6370
Schaffert, R. E. 7453
Schaller, B. 3240, 8181
Schans, D. A. van der 4294
Schans, J. 1146
Schanzenbächer, B. 1605
Schapendonk, A. H. C. M. 790
Schärer, R. 7193
Scharf, H. 3644
Schatz, B. G. 931
Schavemaker, C. M. 6015
Scheibe, R. 2557
Schell, J. 812, 5591
Schellenbaum, P. 4875, 6457
Schellenberg, M. 8127
Scheller, H. V. 6383-6384
Schenk, R. 7730
Schenone, G. 559
Schepers, J. S. 7343
Scheres, B. 8527
Schervak, B. I. 8165
Schiappa, T. 298
Schiavon, G. 6193
Schieder, O. 4439
Schiff, S. 3783, 7004
Schilling, G. 1368
Schilling, R. 2195
Schiltz, E. 7227
Schindler, M. 4256
Schippers, B. 5204
Schjørring, J. K. 5517-5518, 8023
Schlangstedt, M. 4439
Schlegel, A. J. 1585
Schlentner, S. F. 6360
Schliemann, W. 8181
Schliephake, W. 5155
Schmaler, K. 7897
Schmelzer, R. 3204
Schmidt, A. 3820
Schmidt, B. 7537
Schmidt, C. 8779
Schmidt, J. H. 5770, 6444
Schmidt, M. E. 7522
Schmidt, R. 4667
Schmidtlein, E. M. 1494
Schmieder, W. 616, 7159
Schmitt, D. P. 5735
Schmitt, J. M. 2563
Schmitt, M. 4607
Schmitt, M. A. 1507, 4053, 7372
Schmitthenner, A. F. 7520
Schmitz, U. K. 7725
Schmutz, A. 8621
Schnabl, H. 2223, 2225, 3547, 4327, 5828, 6741
Schnee, M. 1387
Schneider, A. 4597
Schneider, A. T. 5974
Schneider, B. 3240
Schneider, G. 807, 6383, 8181
Schneider, J. 115, 718, 7244
Schneider, R. E. 3987
Schneider-Poetsch, H. 4093
Schneiter, A. A. 447, 4222
Schnell, D. J. 7598
Schnug, E. 474, 1467, 1854, 5272, 5456
Schnyder, H. 669, 678, 5442
Schoefs, B. 342, 6761, 7639
Schoeman, G. W. 2959
Schoenau, J. J. 1116
Scholte, K. 5945-5946
Scholz, G. 6159
Scholz, H. 1599, 3218
Schönbeck, F. 4554
Schönborn, H. J. 7542
Schoneman, R. A. 2957-2958
Schönherr, J. 6381
Schoonderbeek, D. 8062
Schoper, J. 7300
Schopfer, P. 806, 1523, 8195
Schopke, C. 6881
Schori, A. 7871
Schortemeyer, M. 7347
Schramm, M. 1474, 1483
Schraudner, M. 1259
Schreiber, L. 6381
Schreiber, P. 8201
Schrief, S. A. 2998
Schröder, G. 7257, 7774
Schröder, J. J. 7345
Schröder, P. 7640
Schroeder, J. I. 4663, 7065
Schroeder, P. C. 4990
Schroote, J. 2404
Schuber, F. 4995, 5002, 8338
Schubert, S. 2109, 2639
Schubiger, F. X. 3283
Schuch, W. 491
Schueller, J. K. 8805
Schuiling, B. P. 1949
Schuller, K. A. 5744, 6726
Schultheis, J. R. 4501
Schultz, G. 7276
Schulz, M. 2223, 2225, 2526, 3216, 3547, 4327, 5828, 6741
Schulz, R. 2911
Schulze, A. 1532
Schulze, E. D. 4595
Schünemann, D. 4302
Schuphan, I. 7537
Schurr, U. 4595
Schuster, G. 2207
Schütte, H. R. 3240, 3768
Schuurink, R. C. 5532
Schwab, M. 1386
Schwartz, A. 3548
Schwartz, H. F. 2240
Schwarz, F. P. 7602
Schwarz, K. U. 7228, 7280
Schwarz, P. B. 2569
Schweimer, A. 8133
Sciumbato, G. L. 276
Scokart, P. 2088, 2178
Scott, C. 7687
Scott, I. M. 1693
Scott, J. E. 8237
Scott, K. J. 6316
Scott, R. K. 8823
Scott, T. K. 1697, 3317, 3533
Scott-Brown, S. 7149
Scoyoc, S. W. van 4280
Scudamore, K. A. 6625
Scurtu, D. 14, 99
Sdobnikov, S. S. 3451, 8807
Sdowski, H. 2275
Seabrook, J. E. A. 4481
Seagull, R. W. 2962
Searle, C. 5084
Searle, G. F. W. 1471
Sears, R. G. 6370
Seastedt, T. R. 6906
Seaton, M. L. 4280
Šebánek, J. 8806
Sebillotte, M. 1926, 4683
Secilia, J. 239
Seddigh, M. 4590, 6081-6082, 6084, 6990, 8690
Sedee, N. J. A. 5532
Sedgley, R. H. 1431, 5401
Sedha, R. K. 3577
Šedivý, J. 8806
Sediyama, C. S. 1000
Sediyama, G. C. 817
Sediyama, M. A. N. 4513
Sedláková, D. 8794
Sedogo, P. M. 2600
Sedova, V. T. 2456
Seed, K. C. 5726
Seed World 1313
Seeley, K. A. 1451
Seemann, J. R. 1712, 1928, 7013
Seenappa, K. 448, 3442, 7801
Seetharam, A. 7801, 8659
Seetharama, N. 3430
Segarra, E. 4517
Seguin, B. 306, 7216
Seguin, J. 2260
Séguy, L. 2377
Sehgal, C. B. 5872
Sehtiya, H. L. 508
Seiden, P. 3531
Seif, A. S. 8464
Seiffert, N. F. 4654
Seĭfulina, L. Ya. 6035
Seĭfullin, Ya. L. 813
Seĭidaliev, N. 1175
Seikhon, G. K. 5881
Seino, H. 2694
Seitz, H. U. 6729
Sekhon, B. S. 4359, 4384, 4532, 7677
Sekhon, H. S. 4355
Sekhon, N. 3894, 3929
Sekhon, N. K. 5845
Sekiguchi, K. 8420
Sekimoto, H. 4898-4899
Sekimura, K. 1126-1129
Sekine, J. 7301
Sekiya, H. 3342
Sekiya, J. 5908-5909, 7005
Sekizawa, Y. 3377
Sekun, N. P. 1381
Selamyihun Kidanu 1996
Selassi, M. L. 968
Seldén, G. 121
Seligmann, H. 4182
Selim, A. M. 20, 150, 316
Selivankina, S. Yu. 116, 8436
Sell, Y. 6013
Selldén, G. 4784, 5058
Selles, F. 3145, 3180, 3903-3904, 4710, 4728, 6223
Selley, R. 7752
Selvan, P. K. 3513
Selvanathan, M. 230
Selvaraj, K. V. 8745
Selvaraj, M. 923
Sembdner, G. 5531, 7542
Sembian, B. 8483
Semeada, A. M. 8615
Semenov, I. L. 6844
Semenov, V. A. 8795
Semenov, V. Yu. 103
Semidey, N. 1196
Semikhatova, O. A. 5049
Semin, B. K. 3527
Semisal, A. A. 8549
Semko, V. T. 8006
Sen, A. 1423
Sen, D. N. 1370
Sen, H. 4493, 6011
Sen, S. 5904
Sen-Mandi, S. 4139, 5451, 6336
Senanayake, Y. D. A. 3467, 8356
Senaratne, R. 8151
Senchenko, V. G. 6371
Sener, S. 5943
Seneviratne, A. M. 857, 7046
Seneviratne, G. 857, 5141, 7046
Sengar, S. S. 3356
Senger, H. 6390
Sengooba, T. 5829
Sengupta, U. K. 3579
Senkálszkyné Ákos, É. 8677
Senkevich, G. S. 8307
Senock, R. S. 8354
Seo, C. W. 3024
Seo, H. I. 291
Seo, J. H. 4169
Seok, Y. S. 3009
Seong, N. S. 6928
Seong, R. C. 8331
Seong, Y. G. 5727
Sepúlveda G., C. 4102
Seradge, E. 2217
Serafini, P. G. 5695
Seraj, Z. I. 4543
Serebryakov, V. V. 141
Serebryanskaya, V. P. 2546
Sergeev, A. V. 3224
Sergienko, L. I. 1506
Serna-Saldivar, S. O. 3268
Sernyk, J. L. 1856
Serot, T. 41
Serquen, F. 4478
Serra, J. 3449
Serrano, L. 8452
Serrano, R. 8776
Sesay, A. 1023
Seshu, D. V. 4104
Sessa, F. 1747
Sessa, G. 488
Šesták, Z. 1316, 7923
Sesto, P. A. 6707
Seta, P. 5577
Sethi, A. S. 1269
Sethi, H. N. 7747
Sethi, K. 1424
Sethi, S. C. 1099
Setijono, S. 1908, 2310
Seto, H. 7427
Seto, T. 5924
Setter, T. L. 803

Settimi, J. R. 5602
Setty, R. A. 6599, 8637
Severson, R. F. 7734
Sewify, G. H. 8615
Seyfried, B. 6390
Seymour, M. 6127
Seymour, M. B. 1282
Seymour, M. D. 4468
Seynnaeve, M. 7969
Sfredo, G. J. 8024
Sgherri, C. L. M. 6063
Sgorbati, S. 1339
Shaarawy, M. A. 3927
Shabaev, V. P. 3501
Shabala, S. N. 3319
Shabana, R. 2998
Shabeer Ahmad 8575
Shacklock, P. S. 4766
Shad, S. S. 8607, 8620
Shadmanov, K. 1182
Shaff, J. E. 658, 1416, 2554, 4858, 7173, 8413
Shafii, B. 5544, 8568
Shafik, I. 2462
Shafiq, M. 7092
Shah, A. 4417
Shah, A. L. 4907
Shah, B. S. 8327
Shah, M. 8014
Shah, M. H. 5090, 5547, 6428
Shah, M. T. A. 1397
Shah, P. 8117
Shah, S. E. 6119
Shah, S. M. 3150, 8626
Shah, T. 5096
Shaha, R. 7179
Shahandeh, H. 3275
Shaheed, M. A. 2003
Shahzad Maqsood 5313
Shaikh, A. A. 4188, 6620
Shaikh, M. G. 3961
Shaikh, M. S. 1294
Shaikh, Z. M. 8455
Shailaja Hittalmani 6534
Shakib, A. M. 6401
Shakirova, F. M. 7205
Shalaby, E. M. 3133
Shalamaĭ, A. S. 1800
Shalygo, N. V. 4021, 5449
Shamakova, L. I. 1768
Shamarov, S. Sh. 8610
Shamina, Z. B. 1577
Shamsuddin, Z. H. 2820
Shane, S. S. 4113
Shane, W. W. 1131
Shang, H. S. 6282
Shang, M. Q. 1552
Shani, U. 7289
Shankar, A. S. 4272
Shanmugasundaram, S. 2750, 6575
Shann, J. R. 6294
Shannon, D. A. 983
Shannon, J. C. 2424
Shantha, R. 6130
Shanthamallaiah, N. R. 450
Shanzer, A. 1189, 6445
Shao, R. C. 1646
Shao, Y. 262
Shapiro, C. A. 139, 6416
Shapovalov, A. A. 4665
Sharada, K. 8252
Sharif, M. 2098
Sharkey, T. D. 1928, 3012, 3558, 3817, 8523
Sharma, A. 501, 3579, 4647, 4647, 5249
Sharma, A. K. 5479, 5870
Sharma, A. N. 3480, 6652
Sharma, A. P. 1901
Sharma, A. R. 191, 2689, 3339, 5634
Sharma, B. 5036
Sharma, B. B. 6793
Sharma, B. D. 3131, 3905, 3915, 5964, 6864-6865, 7712
Sharma, B. K. 3384, 6307
Sharma, B. L. 5398, 7572, 8475
Sharma, C. M. 6788, 7298
Sharma, C. P. 4017
Sharma, D. 43, 5549
Sharma, D. C. 5981
Sharma, D. K. 3001, 4912, 7837
Sharma, D. P. 434, 3971
Sharma, G. D. 6100
Sharma, H. C. 1249, 1938, 5270, 8287
Sharma, H. L. 916, 4955, 5031, 6241
Sharma, H. M. 1060, 4497
Sharma, H. P. 6361
Sharma, H. S. 7051
Sharma, J. 784
Sharma, J. C. 2361
Sharma, J. K. 8318, 8504
Sharma, J. L. 3803
Sharma, K. C. 5405, 7126
Sharma, K. K. 3805, 6070, 6228, 7017
Sharma, K. L. 7449, 7912
Sharma, K. M. S. 5122
Sharma, K. N. 6425
Sharma, K. P. 6668
Sharma, M. L. 3000, 6075, 8685
Sharma, M. M. 1851
Sharma, O. L. 1869, 5301, 8712-8713
Sharma, P. 5282, 5858
Sharma, P. C. 2903, 4192, 6934
Sharma, P. K. 367, 1526, 2478, 2711, 5060, 7572
Sharma, P. P. 7385
Sharma, R. 3912, 4194, 4357, 5283, 8038
Sharma, R. A. 4649, 7059
Sharma, R. C. 916, 5172, 5956, 5960, 5962, 6267, 8734
Sharma, R. K. 1242, 1555, 3755, 4716, 6790, 7523, 8710
Sharma, R. P. R. 1060
Sharma, R. R. 6240, 8557
Sharma, R. S. 514, 2659
Sharma, S. 483, 3043, 6654
Sharma, S. B. 7575
Sharma, S. C. 501, 6117
Sharma, S. K. 1104, 3341, 3907, 4775, 5905, 6263, 6743, 7331
Sharma, S. N. 5325, 8232
Sharma, S. P. 5043
Sharma, S. R. 506, 6115-6116, 7523, 8518, 8710
Sharma, S. S. 483
Sharma, T. R. 8734
Sharma, U. C. 3648, 5174, 5628, 5964, 6639, 6858, 6863-6865, 7712
Sharma, U. D. 7625
Sharma, U. K. 282
Sharma, V. K. 6979
Sharon, A. 6093
Sharon, N. 8785
Sharova, E. I. 5594
Sharp, G. S. 6965
Sharratt, B. S. 5494, 7248
Shashidhar, H. E. 6534
Shashidhar, S. D. 462
Shashidhara, S. D. 354, 5781
Shastri, N. R. 6680
Shata, S. M. 150
Shatanawi, M. R. 4333
Shatilov, I. S. 1933
Shatilova, T. I. 8006
Shatters, R. G., Jr. 1415
Shava, S. V. 7510
Shavarina, H. 6039
Shaviv, A. 175
Shaw, D. R. 988, 1341, 1626-1627, 3479
Shaw, G. 2056
Shaw, J. E. 1511
Shaw, P. J. 2356
Shaw, R. H. 2643
Shayer, E. P. M. 2641
She, J. M. 2996
Sheaffer, C. C. 2101, 7305
Shebayan, J. A. Y. 2755
Shebunin, A. G. 8189
Shedletzky, E. 2063
Sheela, K. R. 6135
Sheelavantar, M. N. 4388, 4415, 5780, 6688-6689, 7045, 7896, 8481
Shehata, A. A. 332
Shehata, M. M. 3542
Sheikh, Z. I. 2435
Sheikher, C. 1410
Sheila, V. K. 1103
Shekar, V. B. 8280
Shekhar, J. 5043
Shekibulla, R. B. 6268
Shelar, V. R. 6619
Shelembi, M. A. 6268
Shelepova, V. I. 614
Shelke, U. B. 934
Shelke, V. B. 6585, 8801
Shelke, V. S. 6422
Shelton, D. R. 604
Shen, B. Z. 6576
Shen, C. H. 6910
Shen, R. Y. 6910
Shen, W. H. 1882
Shenber, M. A. 4783
Sheng, C. F. 1946
Sheng, C. T. 4292
Sheng, C. X. 5278
Sheng, J. 6878
Sheng, J. S. 8239
Sheng, R. D. 831
Shenhmar, M. 4532
Shenkalwa, E. M. 8694
Shenoy, V. V. 4104
Sheo Raj 3711
Sheoran, I. S. 3599-3600, 6291, 8424
Sheoran, R. S. 7470
Shepard, R. L. 3031
Shepherd, M. A. 1769
Shepherd, T. 7823
Sherchan, D. P. 3508, 5417, 5511-5512, 5619, 6221, 7049, 7089
Sherchan, K. K. 7089
Sherif, S. 3927
Sherif, T. H. I. 2877
Sheriff, N. M. 4558, 7061
Sherman, A. 2561
Sherman, R. 4989
Sheshadri, T. 4593
Shet, M. S. 5855
Shetgar, S. S. 8661
Shetty, H. S. 8252
Shetty, S. A. 5701
Shetty, Y. V. 7574
Sheu, Y. H. 4046
Sheu, Y. S. 7021
Sheudzhen, A. K. 8230
Sheudzhen, A. Kh. 8230
Shevchenko, L. V. 4923
Shevchenko, O. V. 7166
Shevchenko, V. A. 3319, 3329
Sheveleva, E. V. 3259, 8140
Sheverov, V. V. 7613
Shevyakova, N. I. 1827
Shewry, P. R. 111, 3189, 4200-4201, 4831, 5491
Shi, G. A. 1992
Shi, G. S. 6324
Shi, H. Z. 5715, 5754
Shi, J. 6099
Shi, J. N. 4867, 5692
Shi, R. H. 6529
Shi, S. B. 3125
Shi, S. L. 1904
Shi, Y. 6630
Shi, Y. P. 3362
Shi, Z. Q. 992
Shibaoka, H. 3016, 3025-3026, 5814, 6097
Shibasaka, M. 4951
Shibasaki, N. 7003
Shibata, D. 4246, 5001
Shibata, S. 499, 5399
Shibles, R. 4039
Shibles, R. M. 4240
Shibusawa, S. 7356
Shibuya, N. 7430
Shibuya, T. 7692
Shibuya, Y. 5134
Shieh, G. J. 8154
Shieh, W. J. 1134
Shields, R. 2945
Shigenaga, S. 4374, 8111
Shih, S. F. 3100
Shil'nikov, I. A. 1758, 6834
Shil'nikova, V. K. 1910
Shimabukuro, R. H. 2473
Shimada, N. 2344
Shimada, S. 5842
Shimamoto, Y. 5932, 6841, 7501, 7518
Shimazaki, K. 5085
Shimazaki, K. I. 1053
Shimizu, K. 4898-4899
Shimizu, M. 380
Shimizu, N. 6988
Shimizu, T. 7427
Shimmen, T. 4832
Shimoda, H. 887, 918
Shimogawara, K. 1515
Shimose, N. 7005
Shimotsuura, I. 1640
Shimoyamada, M. 7543
Shimura, E. 1557-1558
Shin, B. W. 6931
Shin, D. C. 1031
Shin, H. 8268
Shin, H. R. 3340
Shin, J. N. 2103-2104
Shin, K. H. 4891
Shin, M. 6385
Shin, M. G. 1205, 4804, 4978, 5028
Shin, S. K. 3007
Shin, Y. A. 2800
Shin, Y. S. 4123
Shinbashi, N. 1573
Shinde, A. K. 4367
Shinde, D. 281
Shinde, D. A. 8378
Shinde, M. S. 6644
Shinde, N. V. 3594
Shinde, R. P. 2374
Shinde, S. H. 4556, 6948
Shinde, S. S. 7443
Shinde, S. V. 2804
Shinde, V. S. 5888
Shinde, V. U. 4981, 7875
Shinde, Y. M. 7903
Shine, J. M., Jr. 7032, 7882-7883
Shinkle, J. R. 2217
Shinmoto, E. 1404
Shinozaki, K. 1569
Shinta, H. 4244
Shioguchi, N. 843
Shioi, Y. 6400
Shiomi, N. 1293
Shioya, T. 3040-3041
Shiraishi, T. 1681
Shiraiwa, T. 4263
Shirakawa, N. 193
Shirane, K. 4408
Shirima, E. J. M. 6603
Shishlov, M. P. 3214
Shishlova, A. M. 3214
Shishode, N. T. 4548
Shit, D. 513
Shivappa, T. G. 4593
Shivaraj, B. 7391
Shivaramu, H. S. 6946
Shivashankar, G. 3442, 3590, 6534
Shivashankar, K. 2383, 6946
Shivraj, A. 3446
Shiyan, P. N. 5922, 7700
Shiyomi, M. 568
Shkarban, B. V. 8761
Shkel', M. P. 1312
Shkelj, M. P. 1312
Shmat'ko, I. G. 613, 5408, 7199
Shmida, A. 582
Shmuel, M. 2063
Shock, C. C. 5168, 5199, 5997
Shoemaker, R. C. 1649
Shogren, J. F. 1973
Shon, G. M. 840
Shone, G. 752
Shoran, J. 2023
Shorrocks, V. M. 1309, 2386-2387
Short, C. 231

Short, T. W. 1925, 4306, 5812
Shrestha, R. K. 5511, 6221
Shrikhandkar, N. S. 7561, 7568
Shrivastava, A. K. 7881, 7892
Shrivastava, A. R. 8159
Shrivastava, D. K. 6917
Shrivastava, G. K. 7787
Shrivastava, M. N. 3365
Shrivastava, R. 1102
Shrivastava, S. K. 1094
Shrivastava, U. K. 7329
Shrotriya, A. K. 6775
Shroyer, J. P. 4788
Shtefanitsa, B. I. 2595
Shtil'man, M. I. 613, 673
Shtonda, I. A. 5597
Shu, W. 6972
Shugart, L. R. 8351
Shukla, A. 1862, 7841
Shukla, D. N. 481
Shukla, D. S. 3184, 3968
Shukla, L. M. 226
Shukla, N. 558
Shukla, N. P. 5816
Shukla, R. K. 4116
Shukla, S. P. 7887, 7892
Shukla, U. C. 208
Shukla, Y. M. 5040
Shukor, N. 2942
Shukry, W. M. 8453
Shull, J. C. M. 4178
Shull, J. M. 2167
Shultis, J. K. 5363
Shuman, L. M. 7458
Shumba, E. M. 2579, 8656
Shumway, C. R. 3268, 3464
Shuraleva 3671
Shurtz, S. 178
Shvetsov, A. A. 3172
Shyam, N. N. 8742
Shyam Prakash 8689
Sibuga, K. P. 8361
Sicardi de Mallorca, M. 4376
Sicher, R. C. 7167
Sidahmed, O. A. 2242
Siddaramappa, R. 8251, 8263
Siddeswar, G. 7431-7432
Siddiqi, M. Y. 1477-1478, 5519
Siddique, A. B. M. 2715
Siddique, K. H. M. 4718
Siddique, S. B. 6480
Sidebottom, C. 4479, 8416
Sidel'nikova, L. I. 5898
Sidhu, A. S. 4737, 5509, 5845
Sidhu, G. S. 4915
Sidhu, M. S. 2590
Sidhu, S. S. 5479
Sidirelli, M. 6763
Šidlauskas, G. 4812
Sidorchuk, V. I. 4463
Sidorenko, O. I. 2027, 2029
Sidorov, A. A. 388
Sidorshina, T. N. 796
Siebenmorgen, T. J. 929, 4901, 4954, 7442, 8218
Siedlecka, A. 5576
Siedow, J. N. 545, 7530
Sieling, K. 2988
Siemens, J. C. 1507
Siemonsma, J. S. 8822
Sierra, C. 5899
Siervo, A. J. de 411
Sietz, M. A. 6471
Šiffel, P. 1322, 3011
Sigunga, D. O. 1437
Sij, J. W. 7527
Sikka, L. C. 399
Sikora, F. J. 2095
Sikora, R. A. 2297
Silberbush, M. 1027, 8393
Silburn, D. M. 2510, 2744
Silim, S. N. 2968, 3543-3544, 5820
Silin, A. D. 1933
Silk, W. K. 163, 179
Silleos, N. 1342, 3858
Silsbury, J. H. 2222, 2229
Silva, C. M. da 4983
Silva, D. B. da 3892, 7127
Silva, D. D. da 5548
Silva, E. A. M. da 4513
Silva, F. L. I. M. 181
Silva, G. H. 5182
Silva, H. C. 2782
Silva, J. B. da 3564, 4353
Silva, J. F. da 1830
Silva, J. T. A. da 6608
Silva, J. V. da 3824, 4534
Silva, L. C. F. da 5306
Silva, M. A. P. de 857
Silva, N. M. da 1817
Silva, P. R. F. da 1211
Silva, R. F. da 4513
Silva, S. de O. e 1159
Silva, Z. L. 3868
Silva F., F. 3887
Silva-Serna, M. M. 3412, 6600
Silveira, J. S. M. 3566
Silvente, S. T. 4795
Silvestre, J. 3972
Sim, M. 437
Simán, G. 1916, 5510
Simanavičienė, O. 5328
Simba, A. K. 2886
Simchankoŭ, D. G. 4317
Simchenkov, D. G. 4317
Šimek, M. 3618
Simeons, C. 3400
Siminiceanu, E. 7143-7145
Siminis, C. L. 6998
Simmen, U. 5528-5529
Simmonds, D. H. 6970
Simmonneau, T. 1926
Simmons, F. W. 2605, 3477, 5569
Simmons, S. R. 4031, 8138
Simon, E. 2847
Simon, H. 1967
Simon, I. K. 4895
Šimon, J. 8806
Šimon, T. 1012, 1702, 5014
Simon-Plas, F. 5577
Simone, M. de 1061
Simonne, E. 4443
Simontacchi, M. 3489
Simozono, H. 2955
Simozuno, H. 423
Simpson, D. J. 4822
Simpson, H. J. 896
Simpson, R. D. 3473
Simunek, J. 6622
Sin, B. Q. 7163
Sinai, M. 4519
Sinclair, A. H. 627
Sinclair, D. P. 6588
Sinclair, J. B. 990, 2751, 4977
Sinclair, T. R. 654, 670, 1007, 3088, 4263, 5760, 5769, 7931
Šindelářová, M. 1012, 1702, 5014
Sinden, S. L. 5968
Singels, A. 7123
Singer, A. 1024
Singh, A. 5, 704, 1872, 1972, 3076, 3213, 3354, 3577, 3845, 4921, 5113, 5887, 6412, 6447, 6790, 6793, 7380, 8244
Singh, A. B. 4281
Singh, A. K. 629, 5254
Singh, A. L. 312, 1020, 8385
Singh, A. P. 5117, 8724
Singh, B. 214, 236, 564, 1207, 2537, 3131, 3418, 5039, 5648, 5894, 6178, 6253, 8319, 8389
Singh, B. B. 3580, 3688, 3845, 5254
Singh, B. G. 4272, 5108, 7656
Singh, B. H. 8271
Singh, B. K. 4903, 6496
Singh, B. L. 1348
Singh, B. N. 1872
Singh, B. P. 1033, 1592, 4847, 5099, 6222, 8276
Singh, B. R. 4203, 6410, 8316, 8357
Singh, B. V. 2361, 8232
Singh, C. 3321
Singh, C. B. 1057, 2636, 3905
Singh, C. M. 880, 5418, 5894, 8019, 8034, 8038
Singh, C. P. 630, 3571, 6253, 8288
Singh, D. 1407, 3440, 3861, 4905, 5641-5642, 5647, 5699, 6767, 8799
Singh, D. K. 8485
Singh, D. P. 1245, 1938, 4203, 4356, 5322, 5847, 8475
Singh, D. V. 6765
Singh, G. 43, 2427, 2464, 2720, 3350, 3637, 3731, 3891, 3894, 3912, 4357, 4902, 5113, 5283, 5414, 6485, 7051, 8319, 8465-8467
Singh, G. B. 7892
Singh, G. D. 6621, 7474
Singh, G. R. 4453, 4759
Singh, H. 878, 916, 1207, 1269, 1398, 2255, 3129, 3909, 4380, 5031, 5093, 5270, 5350, 5404, 5698, 5870, 6532, 6847, 7447, 8215
Singh, H. B. 605, 610, 7710
Singh, H. G. 3598
Singh, H. N. 3799, 7041
Singh, H. P. 1243, 3571, 6813, 8649
Singh, I. 2720, 3076, 4629, 6798, 7475
Singh, I. J. 6006
Singh, I. S. 8476
Singh, J. 1034, 1741, 3120, 3523, 5949, 7041, 7783, 8271
Singh, J. P. 1465
Singh, K. 564, 3004, 3447, 3614, 6128, 7146, 7991, 8548, 8682
Singh, K. B. 6570, 6806
Singh, K. J. 2771, 5013, 6654
Singh, K. N. 434, 2697, 3971, 5090, 5547, 6428, 7589
Singh, K. P. 1967, 4385, 5790, 5954, 6146, 6645, 8215
Singh, L. 5283, 5879
Singh, M. 257, 683, 685, 755, 1348, 3591, 3593, 4051, 4382, 4392, 4724, 4905, 5413, 5887, 6412, 6767, 6803
Singh, M. P. 1538, 1868, 7393
Singh, N. 2971, 5630, 6078, 7017
Singh, N. B. 949, 951
Singh, N. P. 5057, 5895, 6735, 6793, 6981, 7619
Singh, N. T. 1331
Singh, O. 8490, 8717
Singh, O. B. 4281
Singh, O. P. 2771, 3350, 3481, 4109, 4717, 4902, 5013, 6485, 6654, 7447, 7523, 8286
Singh, O. S. 5036, 5228
Singh, P. 431, 884, 1938, 5261, 7654, 7765
Singh, P. K. 5322, 5965
Singh, P. N. 5885, 6849, 7667
Singh, P. P. 987, 7674, 7676, 7830, 8325, 8682
Singh, P. V. 6813
Singh, R. 704, 1107, 1670, 2396, 2519, 3354, 3599, 3688, 3700, 3815, 3907, 3938, 4359, 4381, 4384, 4586, 5479, 5871, 5871, 6291, 6775, 6981, 7390, 7390, 7653, 7677, 7989, 8465-8467, 8635
Singh, R. A. 725, 768, 3574, 6810, 6861
Singh, R. B. 4186, 6242, 6419
Singh, R. C. 3593, 4385, 4392, 5887, 6803
Singh, R. D. 5647, 6477, 8561
Singh, R. D. P. 8476
Singh, R. K. 1273, 1556, 3079, 5965, 6228, 6263, 7331, 8502
Singh, R. M. 7590
Singh, R. P. 725, 1106, 1245, 5322, 6496, 6691, 6937, 7393
Singh, R. P. N. 2970
Singh, R. S. 2150, 3360, 3363, 4629, 7478
Singh, R. V. 7990
Singh, S. 477, 527, 640, 987, 3755, 3771-3772, 5091, 5325, 5416, 5429, 6028, 6128, 6564, 6861, 7017, 7033, 7402, 7675, 7830, 8232, 8697
Singh, S. B. 1872, 4629, 6040, 7590
Singh, S. K. 3363, 6145
Singh, S. M. 3129
Singh, S. N. 1872, 4628
Singh, S. P. 605, 610, 2081, 6735, 7619, 7675, 7909
Singh, S. V. 5949
Singh, T. 3129, 3344, 5270, 5404, 7589, 8215
Singh, T. B. 6795
Singh, T. H. 1187, 3700
Singh, U. 563, 6099
Singh, U. N. 768
Singh, U. P. 6815
Singh, V. 368-369, 1465, 3637, 5350, 6100
Singh, V. K. 643, 4644, 5704, 5789, 6137, 6849, 7125
Singh, V. N. 8514
Singh, V. P. 725, 1894, 4080, 4717, 4749, 6543, 6561, 7393, 8058
Singh, V. V. 7765
Singh, Y. 7393, 7989
Singh, Y. P. 4051
Singh, Y. V. 1742
Singh Rathore, V. 4585
Singha, D. D. 2666
Singhal, G. S. 649, 2478, 5433
Singhania, R. A. 7402, 7405
Singhel, M. S. 3688
Singlachar, M. A. 4593, 7574
Singleton, P. W. 1754, 3486, 6763
Sinha, D. 30, 6787
Sinha, M. N. 6129
Sinha, N. C. 938
Sinha, N. K. 407, 7329
Sinha, R. 7851-7852
Sinha, R. B. 5117
Sinha, T. S. 485
Sinha, U. P. 4497
Sinkovics, B. 3918
Sinolin, V. Yu. 3501
Sinoquet, H. 2644, 7101
Sinung-Basuki, R. 2921
Sinyutina, N. F. 3945
Siódmiak, J. 2285
Sipio, Q. A. 2508
Sipp, S. K. 6438
Sippola, J. 5505
Siqueira, J. O. 5215
Sirai, K. 1930
Sîrbu, M. 3279, 7327
Sirohi, G. S. 3427
Sirotenko, O. D. 4689
Sirsat, M. T. 6796
Šiška, B. 1488
Sisodia, D. S. 4980
Sisodia, R. I. 6137
Sisson, J. A. 5955
Sisson, V. A. 1877
Sissons, M. J. 7278
Sistachs, M. 439, 8740
Sisworo, E. L. 6505
Sisworo, W. H. 5643, 6505
Sitompul, S. M. 1908, 2085-2086, 2310
Sivaprasad, P. 6016
Sivaramakrishna 6805
Sivolap, Yu. M. 8129
Skadsen, R. W. 6398
Skaggs, R. W. 2648
Skaini, M. 3420
Skalický, J. 3620, 6832
Skalski, J. 5951-5952, 5975
Skärby, L. 121
Skazhennik, M. A. 2151
Škeřík, J. 8806
Skinner, E. N. 5034
Skinner, R. H. 8138
Skipper, H. D. 7555
Skipton, C. A. 8407
Sklyarova, N. P. 4464

Skochinskaya, N. N. 3617
Skoczowski, A. 5466
Skoda, B. 1037
Skorupińska, A. 1811, 5211
Skorupska, H. 1638
Skorupska, H. T. 1638
Skromanis, A. A. 970
Sku, C. 6964
Skubisz, G. 4575
Skutlaberg, A. 1118
Slabas, A. R. 4479
Slack, S. A. 5938
Slade, A. M. 3941
Slafer, G. A. 1442, 1495
Slakeski, N. 4026
Slamet, I. H. 907
Slaughter, L. 299
Slaughter, L. H. 8306
Slepukhina, L. V. 6002
Slinkard, A. E. 1105, 7044, 8507
Ślipek, Z. 2494, 4003, 7241
Sloboda, A. 8401
Slone, J. H. 2915
Slonovschi, V. 7904
Slovenia, Kmetijski Inštitut Slovenije 6206
Slovik, S. 7811, 8780
Sluis, I. van der 5204
Slyusarenko, M. Ya. 5217
Smakouz, G. N. 3619
Small, J. G. C. 6722
Smallfield, B. M. 2454
Smallwood, D. G. 2938
Smart, J. R. 4068
Smelser, R. B. 3482-3483
Smiciklas, K. D. 2613
Smid, A. 6244
Smiley, R. W. 1459
Smirnoff, N. 173, 8203
Smirnov, A. P. 32
Smirnova, T. V. 6000
Smirnova, V. V. 3138, 4734
Smit, H. A. 4739
Smith, A. E. 2978
Smith, A. M. 2553, 8416, 8773
Smith, C. G. 4479
Smith, C. J. 615, 625, 2072, 3576, 3609, 3744, 4364
Smith, C. R. 2190
Smith, D. L. 114, 123, 2538, 2540, 3228, 3580, 5501-5502, 5504
Smith, G. D. 602, 1593, 3729
Smith, J. A. 2907
Smith, J. A. C. 8833
Smith, J. M. 761
Smith, K. A. 36, 588
Smith, K. E. 2062
Smith, L. G. 1041
Smith, L. J. 6068
Smith, M. A. 759, 3265, 6049
Smith, O. D. 4279
Smith, P. D. 6220
Smith, R. B. 1177
Smith, R. C. 5343
Smith, R. J., Jr. 1562
Smith, R. L. 4806
Smith, S. E. 1083, 3091
Smith, S. J. 1475
Smith, S. M. 4476
Smith, V. A. 5055-5056
Smith-White, B. 3823
Smithson, J. B. 1065, 3560, 4339
Smittle, D. A. 4443, 4496
Smolenskaya, S. É. 4484
Smolik, J. D. 1602
Smolin, V. P. 3238
Smolnik, S. 7910
Smolov, A. P. 8335
Smucker, A. J. M. 2131, 3072
Smukalski, M. 5788
Smyth, T. J. 1115, 2588, 4223
Snaydon, R. W. 3045
Sneed, R. E. 2648
Sneh Goyal 3151
Snel, J. F. H. 2404
Śniady, R. 2527
Snidaro, M. 961, 3919, 6631
Snipes, C. E. 2323, 8612
Snyder, G. H. 886, 2141, 7898
Snyder, G. W. 6166, 7167
Snyman, P. J. 6229
So, H. B. 361-362, 3428, 5115, 6592, 7072
So, J. D. 4891, 5246, 6931
Soare, G. 452
Soares, E. 4242
Soares, M. I. M. 1027
Soave, C. 1417
Söber, J. 1076
Sobh, M. M. 7212
Sobolev, V. N. 2027
Socias, F. X. 3558
Soćko, J. 1777-1778
Soderlund, M. 6248
Sodhi, R. S. 4724, 7033
Søegaard, K. 5505
Soejima, H. 5659
Soffes, A. R. 4806, 6245
Søgaard, B. 4777
Soh, C. H. 6396
Sojka, R. E. 3073, 4449, 4646
Sokhansanj, S. 8506
Sokol, A. A. 2546
Sokol, T. V. 2546
Sokolov, I. D. 2456
Sokolov, N. P. 5603
Sokolov, S. M. 4230
Sokolova, V. M. 2108
Solaiappan, U. 7061
Solanke, A. V. 7688, 7727
Solankey, B. S. 6570
Solanki, S. S. 4416-4417
Solárová, J. 5187
Solberg, E. D. 2179
Soldatenko, A. G. 6144
Soldati, A. 2634
Soldatini, G. F. 3974, 4564
Soldatov, S. M. 6834
Soliman, M. 8268
Soliman, M. F. 144
Soliman, M. M. 3556-3557
Soliman, M. S. M. A. 7212
Soliman, N. K. 3927
Solimini, D. 6193
Soliya, D. T. 1015-1016
Soll, J. 321, 6719
Solomon, A. 6909
Solomon, S. 2163
Solomonovitz, S. 2133
Solomonson, L. P. 5585
Solonenko, L. P. 2035
Solorzano, P. R. 283
Solov'eva, N. A. 5898
Sołtysik, A. 6230
Soman, P. 255, 3430
Somer, M. 3010
Somers, D. A. 5587
Somers, D. J. 8057
Somerville, C. 544
Somerville, S. C. 2560
Sommarin, M. 3177
Sommen, F. J. van der 2406
Sommer, C. 1336, 1934
Sommer, K. 4846
Sommer, S. G. 8023
Sommerfeld, M. L. 8095
Son, D. 8297
Son, S. Y. 4250
Son, Y. H. 1260, 4123
Sonar, K. R. 6696
Sondge, V. D. 2335, 3730, 3736, 4611, 5250, 6422
Sone, Y. 5865
Song, C. H. 4354
Song, C. P. 4753, 6955
Song, D. S. 233
Song, F. Y. 3157
Song, H. 6275
Song, P. 6560, 8332
Song, S. H. 4854
Song, X. H. 8036
Song, Y. J. 228
Song, Y. S. 852
Songin, H. 2201
Soni, K. C. 4380, 5870
Sonka, S. T. 1535
Sonnewald, U. 1317
Sonnino, A. 4502
Sonobe, S. 3025, 6097
Sonoda, R. M. 3583
Sonoda, T. 1126-1129
Sonoda, Y. 7492
Sontakey, P. Y. 5023, 5260, 6698, 6925-6926, 6951, 7584
Sood, D. R. 1739
Sood, R. D. 5894
Soopramanien, G. C. 7099
Sopandie, D. 4545
Sopory, S. K. 7014
Sordi, G. de 1716
Sorensen, L. H. 5974
Sori, I. 808
Soriano, A. 1213-1214
Sorochinskaya, E. P. 2685
Sorokin, E. M. 1148, 1788, 5072
Sorokina, A. D. 5176
Sorrells, M. E. 648, 1419
Sosa, O., Jr. 7882-7883
Sosnowski, S. 1047
Sotheeswaran, S. 3036
Soto Guevara, L. M. 8592
Souder, C. le 3054
Sourell, H. 5943
Sousa, R. P. de 428, 7759, 7766
South Africa, Department of Agricultural Development 2413, 3872-3873, 3875, 8814
South Africa, South African Sugar Association Experiment Station 3874
Southon, T. E. 2065, 4878
Souty, N. 821
Souza, A. da S. 1159
Souza, J. G. de 4534
Souza Filho, B. F. de 4335
Sowa, G. 5163, 5209-5210
Sowokinos, J. R. 5190
Soyer, J. P. 2096
Spada, P. 50, 7204
Spain, Servicio de Investigación Agraria 7976
Spaink, H. 8527
Spampinato, C. P. 5581
Spanakakis, A. 5412
Špaňk, F. 1488
Spano, D. 254
Spanswick, R. M. 1517, 1711, 2552, 2857-2858
Sparks, D. L. 776
Sparovek, G. 2641
Sparrow, D. H. B. 4819, 7278
Sparrow, L. A. 1143, 1776, 3336, 5957-5958
Sparrow, S. D. 397
Speiser, D. M. 484
Speller, C. S. 3879, 5321
Spencer, G. F. 8581, 8784
Spener, F. 8691
Speth, V. 7227
Spettoli, P. 1761
Spickermann, U. 1138
Spickett, C. M. 173, 8203
Spiertz, J. H. J. 6191
Spies, J. 7398
Spink, J. H. 1852
Spînu, M. 146
Spiteri, A. 6956
Spitters, C. J. T. 5988, 8591
Splittstoesser, W. E. 421
Sponsel, V. M. 1695
Sprague, G. F. 1508
Sprau, G. L. 1618
Spraul, M. H. 3030
Spray, C. R. 807, 8185
Sprent, J. I. 373, 2191, 6186, 6676, 8510-8511
Spring, O. 6959
Sproule, A. 3759
Špunar, J. 1468
Spurgeon, W. E. 7309
Spurlock, S. R. 2323
Spurr, D. T. 8118
Spychalla, J. P. 5190
Squires, V. R. 2425
Sree, B. K. 5662
Sreedevi, P. 7382
Sreedharan, C. 7382
Sreekumar, S. G. 7558
Sreenivasa, M. N. 3205
Sreeramulu, N. 5111
Srejić, R. 4085
Sridhar, R. 2810, 3456
Sridhar, V. 768
Sridharan, S. 2813
Sriharinath, K. 7407-7408
Srimathi, P. 6490
Srinivas, S. 18
Srinivas, T. 2742
Srinivasan 5854
Srinivasan, C. 1537, 3325
Srinivasan, C. N. 4278
Srinivasan, K. 6130, 6431, 6781
Srinivasan, P. S. 4117
Srinivasan, T. R. 8706
Srinivasan, V. M. 6133
Srinivasulu, R. 6895
Srisapakit, K. 2703
Srisuma, N. 5840
Srivastava, A. 5070-5071
Srivastava, A. N. 2977, 3002
Srivastava, B. K. 3520, 8399
Srivastava, G. C. 3742, 4560, 5262, 5268, 6962
Srivastava, H. S. 1861
Srivastava, J. P. 683, 685
Srivastava, K. L. 1593, 3729
Srivastava, K. P. 1736, 4957, 6653
Srivastava, M. K. 7887
Srivastava, M. M. 7592
Srivastava, O. P. 214
Srivastava, P. C. 6545
Srivastava, R. D. L. 3405
Srivastava, R. K. 2715, 4186, 6242, 6419
Srivastava, S. K. 4281, 5772, 6654, 8325
Srivastava, S. N. L. 3032, 8716
Srivastava, V. C. 6791, 8482
Šroller, J. 1121
Staay, J. van de 2057
Stabel, P. 666
Stadelmann, E. J. 8080
Stadelmann, F. X. 5353
Staden, J. van 690, 1043, 1762, 3487, 5810, 8179
Staden, W. H. van 2959
Staehelin, L. A. 1472, 6165, 8788
Stafford, A. E. 7200
Ståhl, U. 8590
Stahlberg, R. 1691
Stahr, K. 3302, 3439
Stalham, M. A. 6850
Stalin, P. 5175
Stallknecht, G. F. 3924
Stamboliev, M. 3149
Stamford, N. P. 2249
Stamp, P. 2587, 2589, 2634, 3074, 6436, 6448, 7347
Stan, O. 160
Stan, S. 364
Stanca, A. M. 961, 7268
Standley, J. 6588
Stanforth, A. 6186
Stanger, C. E. 5181
Stangl, J. 5284
Stanko, S. A. 5454, 7191-7192
Stanković, M. 1796, 3010
Stankowski, S. 714-716, 958, 7238, 7242
Stansell, J. R. 4443
Stapleton, A. E. 3078
Staricka, J. A. 4209, 4211
Staritsky, G. 5216, 6884
Stark, C. 4667, 4764, 4896
Stark, J. C. 3140, 5200
Staswick, P. E. 293
Staszewski, L. 6443
Statler, G. D. 1838
Staton, M. J. 762
Statsenko, A. P. 7940
Stebbins, N. 2780
Stecker, J. A. 7316, 8157
Steed, C. L. 3535
Steed, G. R. 6194
Steer, M. W. 5485
Ştefan, A. 199
Ştefan, I. 172
Ştefan, S. 199

Ştefan, V. 7161, 7198
Ştefanescu, L. 146
Ştefanic, G. 134
Stefanizzi, L. 8191
Steffen, K. L. 5380
Steffens, D. 1386, 3059
Steffens, G. 529, 7486
Steffin, U. 7234
Stegemann, K. 1429, 7704
Stegman, E. C. 6248
Stehlík, K. 1246
Stehno, Z. 6266
Stehouwer, R. C. 2578
Steiber, T. D. 5168
Steinberger, Y. 6432
Steiner, A. M. 4676, 6238, 6308
Steiner, J. J. 433
Steiner, J. L. 942
Steinert, P. 3841
Steingröver, E. 3260
Stelling, D. 2840
Stelzer, R. 1514
Stemler, A. 1235
Stengel, P. 821
Stenlid, G. 42
Stenz, H. G. 4872
Stepanok, V. V. 6337, 8103
Stephan, U. W. 6159
Stephen, N. H. 4805
Stephens, L. R. 1689
Stephens, P. A. 5736
Stepniewski, A. 1863, 2741, 2993
Steponkus, P. L. 4802, 5492, 8270
Stern, R. D. 8398
Sterrett, S. B. 417, 5968
Stetsenko, A. I. 5593, 7357
Steudle, E. 159, 1514, 6454, 8204
Steven, M. D. 2245, 7085
Stevens, M. C. 4572
Stevens, W. E. 5219
Stevenson, E. A. 8045
Stewart, B. A. 7131
Stewart, C. A. 2622
Stewart, G. R. 4883, 6605, 8497
Stewart, H. E. 2941
Stewart, J. G. 8570
Stewart, J. I. 954
Stewart, S. J. 1450
Stewart, V. R. 3924
Stewart, W. 4004
Steyn, J. M. 1141-1142
Sthapit, B. R. 4155, 6525
Sticher, L. 489, 5292, 5711
Stichler, C. 8605
Stickland, T. R. 5346
Sticklen, M. B. 1537, 3325
Stieber, T. D. 5199, 5997
Stienstra, W. C. 4209, 4211
Stiff, C. M. 5132
Stillingfleet, N. R. 5152
Ştirbu, C. 7367
Stitt, M. 1287, 4595, 7723-7724, 8578, 8634
Stivari, A. 4290
Stobart, A. K. 4201
Stobart, K. 6049
Stobbe, E. H. 726, 3893
Stober, F. 2477
Stobiecki, M. 4405
Stock, D. 6280
Stock, M. 3768
Stockle, C. O. 1421, 2584, 5338
Stocks, G. R. 3008
Stodola, A. J. W. 4373
Stoffella, P. J. 3583
Stöger, E. 2355
Stoica, S. 135
Stoilov, L. 8190
Stoimenova, I. 2761, 3475-3476
Stojanović, O. 1796
Štolcová, M. 2532
Stoller, E. W. 3477
Stolpakova, V. V. 3186
Stoltenburg, H. M. 2934
Stone, B. A. 4789
Stone, J. F. 6594
Stone, L. R. 6060
Stone, M. E. 2959
Stone, N. D. 574
Stopes, C. E. 2931
Stöppler, H. 3687, 4458
Storey, R. 4823
Storey, R. M. J. 3879
Stout, R. G. 3992
Stoyanov, I. 7342
Stoyanova, M. 7633
Stoyanova, Yu. St. 1718
Stpiczyńska, M. 4304
Strabac, D. 7180
Strack, D. 5277
Strahler, A. H. 567, 7086
Strain, B. R. 8627
Strand, E. 4796, 4970-4971
Strashnaya, A. I. 7962
Strass, F. 1413, 1427
Strasser, B. 7324
Stratilatova, E. V. 4027
Stratsīlatava, A. V. 4027
Straw, R. A. 7377
Streb, P. 4801
Street, J. E. 4131, 8612
Streeter, J. G. 2895, 5011, 8526
Strehler, A. 8282
Strel'nikov, V. I. 3229
Streusand, V. J. 2768
Stringam, G. R. 3751
Strnad, P. 1755, 2428
Strnad, V. 5355
Stroetenga, M. 2057
Ströh-Neben, U. 2479
Strommen, N. D. 3103
Strong, W. M. 2441
Stroup, W. W. 7637
Struglics, A. 8579
Struik, P. C. 1791, 2922, 3667, 6191, 7728
Strzalka, K. 6391, 7269
Strzelecki, A. W. 7240
Stuart, I. M. 8139
Stuart-Williams, K. 6750
Stuchberry, J. 6713
Stucker, R. E. 7516
Studer, D. 3505
Stuiver, C. E. E. 3973
Stulen, I. 4419
Stulin, A. F. 3739
Stüllein, G. 7795
Šturc, T. 6845
Sturny, W. G. 7698
Sturtz, J. D. 3725
Stützel, H. 336
Styk, B. 6367
Stymne, S. 42, 470, 4201, 6049
Su, H. 3979
Su, Z. Q. 2013
Subagio, I. 1263-1264, 1267
Subash, N. 1015
Subbaiah, C. C. 7611
Subbaiah, K. R. 1672
Subbian, P. 2664
Subedar Singh 6861
Subedi, B. P. 6668
Subhan, F. 2011
Subhashini, K. 3404
Subotinas, A. 5237
Subrahmanyam, D. 3003, 4585
Subrahmanyam, K. 2806, 6765
Subrahmanyam, P. 3509, 7980, 8386
Subramaniam, S. 6133
Subramanian, M. 5646
Subramanian, S. 3357, 5675, 6521, 8220, 8248
Subramanian, V. K. 8524
Suc, S. 5737
Suciu, T. 79, 1003
Suckert, J. 1906
Sud, A. D. 2099
Sud, K. C. 5172, 5956, 5960, 5962
Sudama Singh 8711
Sudhakar, C. 3587, 3612
Sudhakar, N. 5114
Sudhakar, P. 5108
Sudo, K. I. 5671
Sudo, S. 2351
Suescún G., J. 4448
Sugawara, H. 5926
Sugawara, M. 6295
Suge, H. 1697, 3388
Sugiharto, B. 2116
Sugimoto, A. 7889
Sugimoto, T. 5008
Sugimura, Y. 5134
Sugiyama, M. 219
Sugiyama, T. 2116, 5659, 8297
Suh, H. S. 287, 1031, 2785
Suh, S. C. 3397
Suhadi 1268
Suhăreanu, M. 135
Suherman, O. 1571
Sui, F. G. 2726
Sui, X. M. 5007
Suja, G. 7414
Sukarto 8727
Sukhadia, N. M. 7907
Sukhija, H. S. 884
Sukhova, L. S. 5936
Sukhvinder Singh 5091
Sukrapanna, S. S. 4019
Sułek, A. 1999
Sulewska, H. 7302-7303
Sulima, A. F. 530
Sullivan, A. H. 3693
Sullivan, J. H. 2193
Sullivan, P. G. 574
Sulochana, K. K. 6016
Sultana, C. 2332
Sultanbaev, B. E. 3186
Sültemeyer, D. 8779
Sumantri, A. 5311, 8719
Sumaryono 8522
Sumita, K. 197
Sumita Ghosh 8340
Summer, A. K. 8118
Summerfield, R. 8345
Summerfield, R. J. 235, 2632, 5762, 8345
Sumner, M. E. 3275
Sumner, M. J. 3754
Sumoyo 4619
Sun, C. S. 3445
Sun, G. 1688
Sun, G. D. 3366
Sun, G. Y. 7533
Sun, J. 6649
Sun, J. C. 1445
Sun, J. Y. 1651, 5766
Sun, L. H. 6324
Sun, P. M. H. 7090
Sun, Q. 5132
Sun, S. 170
Sun, W. Q. 6672
Sun, X. 4814
Sun, X. H. 888
Sun, Y. 7232
Sun, Y. H. 5721
Sun, Y. Q. 6533
Sun, Z. C. 6433
Sundaram, V. 1821
Sundararaj, N. 5122
Sundararaj, R. 7767
Sundararajan, R. 8728
Sundberg, D. 4039
Sunder, R. S. 1224
Sundqvist, C. 664, 1408, 2946, 6298, 6301-6302, 8061, 8830
Sung, B. R. 5274
Sung, F. J. M. 6637
Sung, H. Y. 5527
Sung, J. M. 5652
Sunil Goel 6447
Sunil Holkar 4164
Sunkel, C. 5291
Suong Phung Nhu Hung 1748
Supaad, M. A. 4127
Supalla, R. J. 2100
Suprihatno, B. 863
Sur, H. S. 5845
Sur, K. 5480
Suraminathan, C. 6584
Surendra Singh 4703
Surendran, C. 6584
Surendranathan, K. K. 6871
Suresh, M. 4413
Surinder Singh 6028, 6128
Surjit Singh 7017
Surolia, A. 7602
Surov, N. G. 1305
Suryanarayana, K. 7850
Suseelamma, M. 1112
Susha, E. V. 1915
Šušić, S. 405
Sutaria, G. S. 311
Sutaryo, B. 863
Şuteu, G. E. 7507
Sutherland, K. G. 3879
Sutinen, S. 4784
Sutka, J. 7201
Sutter, E. G. 1892
Suttle, J. C. 2566, 6037
Sutton, K. H. 3135
Sutyagina, T. I. 4810
Suvercha 3206
Suwandi 5311
Suwara, I. 3052
Suzuki, A. 7349
Suzuki, M. 2142-2149, 2198-2199, 2359, 2367-2368, 2759-2760
Suzuki, T. 499, 2545
Suzuki, Y. 4659, 8185
Svads, H. C. 1118
Švedienė, S. 6375
Svendsby, O. 7417
Svendsen, H. 1480, 4688
Svendsen, I. 4822, 5907
Sverzut, C. B. 4637
Švihra, J. 3962
Svirezhev, J. M. 8090
Sviridova, A. V. 3706
Svirshchevskaya, A. M. 8539
Svobodová, I. 3934
Švorcová, M. 6845
Swain, R. S. 3176
Swami, B. N. 6263, 7331
Swaminathan, K. 3517, 5787
Swaminathan, K. R. 524
Swamy, A. V. S. R. 1101, 5119
Swamy, K. R. 5850
Swamy, K. T. V. 8796
Swamy, N. R. 6895
Swanton, C. J. 1511, 6417
Swaraj, K. 3600, 4394, 5137
Swarup, A. 856
Sweden, Jordbrukstekniska Institutet 8815
Sweeney, D. W. 7514
Sweeney, G. 1456
Sweet, J. B. 3879
Sweet, S. S. 6101
Swegle, M. 743
Swenson, J. B. 4569
Swinbourne, F. J. 1409
Swords, K. M. M. 6165
Syamasonta, M. B. 8362, 8395
Syargeeva, A. V. 3996
Sychev, I. P. 1770
Sycheva, V. P. 1770
Sychikov, L. A. 766
Sydow, S. 8133
Syekhfani, M. S. 1908, 2085
Syiam, M. M. 3702
Sykes, S. 8693
Sylvester-Bradley, R. 525
Sylvia, D. M. 5617, 7555
Symeonidis, L. 655
Symons, S. J. 8078
Syriac, E. K. 205, 8241, 8245
Sys, C. 5459
Sysoev, L. A. 5467
Sysoeva, V. I. 4269
Szabó, G. 5391
Szabó, L. 6675
Szabó, L. G. 2844
Szabó, T. 8202
Szalóki, S. 8746
Sze, H. 86
Szente, K. 6947
Szlovak, S. 8202
Szmal, B. 703, 971
Szmigiel, A. 2002
Szoke, A. 1639
Szoke, T. G. 1539
Szőke-Molnár, L. 5605, 8792
Szot, B. 1699, 1863, 2741, 2993, 3457
Szott, L. T. 8210
Szunics, L. 2475, 2475
Szustak, A. 4033
Ta, T. C. 3304

Taa, A. 1974, 1981, 1985, 2008
Tabata, S. 3983
Tabuchi, S. 3689
Tadaki, T. 7003
Tadano, T. 3382
Tadesse Mebrahtu 1654
Tadiouis, T. 7901
Taengsuwan, P. 194
Tafur, S. M. de 4507
Tager, E. A. 7441
Taglioli, G. 1119
Tagwira, F. 7333
Taha, J. S. 7078
Taha, Md. 7493
Tahara, S. 2260, 4403, 5134
Tahir, M. 1428, 2152
Tahir, M. I. 8018
Tahir Hussain 1176, 2135
Tai, P. Y. P. 7032, 7882-7883
Tairbekov, M. G. 1864, 4577
Taiwan, Council of Agriculture 8817
Tajuddin, E. 8228
Takada, H. 3696, 3983, 7229
Takada, S. 5924
Takagi, M. 1512
Takagi, S. 5000, 5245
Takagis, S. 6154
Takaha, T. 4476
Takahama, U. 5068
Takahashi, E. 4136
Takahashi, H. 1697, 3317, 3533, 5109
Takahashi, K. 899-900, 2943, 4975, 5399
Takahashi, N. 4933, 5658
Takahashi, R. 1127-1129
Takahashi, S. 219, 568, 1930
Takahashi, T. 608, 1660, 5842, 6102
Takahashi, Y. 197, 5724
Takami, S. 219
Takamiya, K. 6400
Takamura, H. 8336
Takaoka, T. 6549
Takasaki, Y. 1005
Takasugi, M. 4447
Takayanagi, T. 5079
Takebe, M. 1572
Takeda, H. 2950
Takeda, S. 1967, 6997
Takeda, T. 1126-1127
Takemoto, L. J. 1713
Takemura, M. 5842
Takeno, T. 6905
Takeoka, Y. 904, 3109
Takeuchi, A. 3368
Takeuchi, H. 5078
Takeuchi, R. 3251
Takeuchi, W. 5109
Takeuchi, Y. 3829
Takeyama, K. 7356
Takita, T. 1557-1558, 3364
Takiyama, S. 4966
Takkar, P. N. 2452, 2489
Takruri, H. R. 3953
Takzure, S. C. 5260, 6698, 6925, 7584
Talanova, V. V. 4771
Talavera, S. F. T. 7635-7636
Talbert, R. E. 5430
Talbott, L. D. 1686, 1698
Talluri, P. 4295
Talukder, M. S. U. 1019
Talukder, N. M. 4400
Talwar, H. S. 5032
Tamagami, S. 4935
Tamayama, A. 5926
Tamborini, L. 7247
Tamgadge, D. B. 4958
Tamilselvan, C. 1080, 7767, 8728
Tamilselvan, N. 503, 6106, 6119
Tamimi, S. M. 5059
Tamošiūnienė, R. 6846
Tamura, A. 531
Tamura, N. 7544
Tamura, T. 189, 1615, 2898, 6825, 6988
Tamura, Y. 182
Tan, B. C. 5852
Tan, C. S. 5763
Tan, K. 246, 5686
Tan, K. H. 2115, 6304, 6325
Tan, K. Z. 245, 245-246
Tan, S. T. 515
Tan, W. 3860
Tan, Z. B. 861
Tan, Z. J. 8262
Tan, Z. Z. 919
Tan-Wilson, A. L. 2776, 2779
Tanabe, H. 1126-1129
Tanaka, A. 2551, 6385, 6493
Tanaka, D. C. 4732
Tanaka, D. L. 1405
Tanaka, F. S. 2473, 2566
Tanaka, H. 3046
Tanaka, K. 4246, 5085
Tanaka, M. A. de S. 4287
Tanaka, M. A. S. 7528
Tanaka, N. 200, 832, 838, 3347, 3399
Tanaka, O. 918
Tanaka, R. T. 7528, 8156
Tanaka, S. 808, 7873
Tanaka, Y. 1930
Tanasawa, K. 4925
Tanasch, L. 7517, 7548
Tănăsescu, R. 7161
Tanchak, M. A. 5758
Tancogne, J. 7847, 7856
Tandecarz, J. S. 1152
Tandon, H. L. S. 1367
Tandon, J. P. 2023, 2452, 3154
Taneda, S. 182, 189
Taneja, A. D. 1901
Taneja, K. D. 4170
Tang, C. 8512
Tang, C. X. 3608
Tang, H. 5459
Tang, H. J. 4097
Tang, J. 8506
Tang, R. S. 8265
Tang, S. H. 4682
Tang, X. H. 4934
Tang, X. S. 3545
Tang, Y. W. 4763
Tang, Z. H. 897
Tanguy, X. 2347
Taniguchi, T. 4634
Taniguchi, Y. 7260
Tanimu, B. 6687
Tanimura, M. 6831
Tannar, J. W. 2818
Tanner, D. G. 1970, 1974, 1985, 1998, 2007-2008, 2417
Tanno, N. 6018-6019
Tano, F. 2067
Tanoue, H. 423, 2955
Tantsova, O. I. 6407
Tantsyurenko, E. V. 3617
Tao, A. H. 359
Tao, F. Z. 5715
Tao, L. X. 5279
Tao, Q. N. 4101, 8249
Tao, Y. G. 3781
Tapadia, B. B. 4640
Tapaswi, P. K. 7206
Taponenko, A. K. 8662
Tarafdar, P. K. 6510
Taramino, G. 940, 3305
Taran, M. G. 662
Taran, V. Ya. 4199
Tarantino, E. 935, 941
Tarapatov, I. F. 2456
Tarar, J. L. 4271, 4976, 6964
Tarasevich, G. F. 747
Tarasevitch, G. F. 747
Tarchevskaya, O. I. 6725
Tarchevsky, I. 49, 323, 410
Tarchevsky, I. A. 598
Tarczynski, M. C. 5826
Tardieu, F. 3183, 3322-3323, 5589, 6168, 8174, 8664
Tarigans, D. D. 4545
Tarkiewicz, S. 4032
Tarmani, P. 8721
Tarnavskaya, E. B. 1864
Tarrad, A. M. 5825
Tasheva, B. 8190
Tătărăscu, M. 7508, 7915
Tatematsu, A. 5079
Tatham, A. S. 4200, 4831, 5491
Taton, M. 802
Tatsumi, J. 8048
Tatte, P. S. 5257, 5259
Taugher, C. Y. 8341
Taunk, S. K. 363
Tauraev, A. 2355
Taware, S. P. 2756, 4228
Tawfic, N. F. 7078
Tay U., J. 5819
Taya, S. 1404
Tayel, M. Y. 5821-5822
Taylor, A. E. 3530
Taylor, A. G. 1865, 3775
Taylor, A. J. 3744
Taylor, D. B. 574
Taylor, D. C. 1860, 2343
Taylor, G. A. 3924
Taylor, G. J. 2030, 2860, 6293
Taylor, G. S. 1878
Taylor, H. M. 1192, 3713, 3851
Taylor, I. E. P. 7642
Taylor, J. 5007, 6748-6749
Taylor, J. S. 5500
Taylor, M. A. 6868
Taylor, P. E. 5804
Taylor, R. 6093
Tazaki, H. 5192
Tchan, Y. T. 1939
Tchatchueng, J. B. 5227
Teaney, G. B., III 3498
Tebuev, Kh. Kh. 2987, 7962
Teich, A. H. 6244
Teissère, M. 7541
Teixeira, A. 7348
Teixeira, J. L. 798
Teixeira, J. R. J. 4654
Tej Singh 8215
Tejada, G. D. 8609
Tejklová, E. 4552
Tekalign Mamo 1996-1997
Tekauz, A. 6283
TeKrony, D. M. 1650
Tekušová, M. 3848
Telaye, A. 7620
Telepova, M. N. 3292
Telmer, C. A. 6970
Ten Berge, H. F. M. 7416
Ten Hoopen, H. J. G. 1257
Tench, A. J. 6920-6921
Tendulkar, A. V. 3707
Teng, P. S. 1131
Tennant, D. 5401, 5473
Teo, Y. H. 3343, 3380
Teotia, B. S. 1273
Teramoto, E. R. 2641
Teramura, A. H. 2193, 2675, 3693
Terao, J. 5001
Terekhova, S. S. 6144
Tereshchenko, A. F. 3562
Tereshchenko, R. I. 6340
Tereshkina, S. D. 7817
Terouanne, E. 4547
Terra, F. M. 4161
Terrill, T. R. 6993-6994
Terry, D. L. 5570
Terry, E. R. 4697
Terry, M. J. 2500, 8070
Teruya, H. 7039
Tesemma, T. 2018, 2024
Tesfa Bogale 7901
Tesfaye Tesemma 2024
Tesha, A. J. 5111
Tester, R. F. 7282
Tétu, T. 1136, 7703
Teutonico, R. A. 6976
Tevzadze, N. N. 6757
Tewari, K. K. 7611
Tewatia, R. K. 1308, 6522
Tewfik, M. S. 6437
Texeira, L. G. 4274
Texier, V. 459
Teyker, R. H. 792, 2594, 2767, 6322
Thabet, A. G. 3911
Thakare, K. K. 5248, 6562, 6796
Thakare, S. K. 6516
Thakral, S. K. 6028
Thakur, D. R. 3267, 5905
Thakur, G. L. 1280, 6115, 7523
Thakur, K. D. 6941
Thakur, K. S. 880, 5629
Thakur, M. P. 8325
Thakur, N. P. 145
Thakur, R. B. 2661, 2894, 6496, 8636
Thakur, R. C. 6240, 7320
Thakur, R. S. 2463, 3156, 5083
Thakur, S. 2898, 6825
Thakuria, K. 7831, 8457
Thangavelu, S. 2813
Thapa, M. P. 7089
Thapa, Y. B. 3508, 5428, 5511-5512, 5619, 6221, 7049
Thapar, S. 4384
Thavarasook, C. 2873
Thaxton, P. M. 1169
Thayer, S. S. 1822
Theil, E. C. 4268
Thellier, M. 7775
Theodorou, M. E. 6080, 6163
Theunis, C. H. 1885
Thévenot, C. 2118
Thiagarajan, T. R. 2878
Thiaw, S. 7659
Thibaud, G. R. 773, 4849
Thibeau, D. J. 5776
Thicke, F. E. 2101
Thiebart, I. 7541
Thies, J. E. 1754
Thies, W. 2992
Thimann, K. V. 4797
Thimmaiah, G. 6034
Thimmaiah, S. K. 676
Thimmegowda, S. 7657, 7786
Thind, S. S. 2489, 4908
Thiraporn, R. 2587, 2589, 6436, 6448
Thirupal, K. 7015
Thoarat, S. T. 8651
Thoiron, A. 7775
Thoiron, B. 8630
Tholen, J. T. 8676
Thom, M. 4633
Thomas, A. 4146, 7937
Thomas, B. 2500, 8070
Thomas, D. I. 1618
Thomas, D. L. 466, 8321
Thomas, G. A. 6587-6588
Thomas, H. 8127
Thomas, N. P. 1593
Thomas, R. B. 8627
Thomas, S. P. 6575
Thomas, Y. 8228
Thombre, K. J. 4381
Thombre, P. A. 8315
Thombre, R. R. 2177
Thompson, A. J. 4740
Thompson, A. L. 5552
Thompson, C. J. 8512
Thompson, C. R. 5086
Thompson, D. S. 5838
Thompson, G. R., Jr. 8422
Thompson, J. A. 4721
Thompson, J. E. 2861, 8451
Thompson, J. F. 803
Thompson, K. 4841
Thompson, L. K. 5034
Thompson, N. R. 5182
Thompson, P. G. 4496
Thompson, R. 6450
Thompson-Coffe, C. 4874
Thoms, K. 3296, 8170
Thomsen, B. 6987
Thomsen, I. K. 7258
Thomson, C. J. 3608, 5462
Thomson, W. 5120
Thomson, W. W. 1737
Thon, A. 6003
Thongket, T. 5214
Thongpae, S. 805
Thorn, J. M. 1521
Thornber, J. P. 3244, 7596
Thorne, R. L. Z. 6309
Thornham, K. T. 5316
Thornley, J. H. M. 600
Thornton, M. K. 1804-1805
Thornton, P. K. 563
Thornton, R. E. 5181

Thorp, J. R. A. 1776
Thorpe, M. R. 5794, 8410
Thorpe, T. A. 5468, 6070
Thorve, P. V. 4215, 5037, 6583, 7054, 8371
Thosar, V. R. 2981, 2983-2984, 5027, 5257, 5259, 6700
Thote, S. G. 1674
Thouvenel, J. C. 6882
Thukrl, A. K. 3946
Thuleau, P. 7065
Thurlow, D. L. 4968, 8161, 8303
Thyagarajan, A. 5646
Tibbitts, T. W. 409, 4488
Tiberi, M. 2205, 2231
Tiburcio, A. F. 6343
Tice, K. R. 2484
Tichá, B. 1755
Tichý, F. 1449, 1452
Tièche, J. D. 7193
Ţifache, T. 3282
Ţigănaş, L. 7512
Tighe, C. R. 7593
Tikhonovich, Z. A. 2439
Tilahun Tadious 7901
Tilak, K. V. B. R. 257
Tillberg, E. 8590
Tillmann, M. A. A. 247-248, 3564, 4161, 4353
Tilquin, J. P. 7434
Timbare, R. Ya. 970
Timirgaziu, E. 3738
Timonina, V. N. 1148, 1788, 5072, 6844
Timpa, J. D. 6913
Timsina, J. 5100, 5102, 5863
Tindall, T. A. 3140
Tippannavar, C. M. 4389, 4398, 6812
Tirado Torres, J. L. 8059
Tirlapur, U. K. 4601
Tischler, C. R. 251
Tishchenko, A. T. 8751
Tishkov, N. I. 3239
Tišler, V. 3778
Tisselli Filho, O. 2134
Tissescu, A. 815
Tissut, M. 5431
Titov, A. F. 1434, 3195, 4771
Tits, M. 4431, 5927, 7701
Titus, J. S. 2679
Titze, E. 7796
Tiwana, M. S. 3212
Tiwane, A. K. 6531, 6893
Tiwari, A. K. 1348
Tiwari, A. S. 2255
Tiwari, J. P. 881
Tiwari, K. N. 35
Tiwari, K. P. 5394
Tiwari, K. R. 7089, 8490
Tiwari, O. P. 5884
Tiwari, P. N. 3178, 3192
Tiwari, P. S. P. 8313
Tiwari, R. B. 7805
Tiwari, S. P. 985
Tiwari, T. P. 3508, 5428, 5511-5512, 5619, 6221, 7049
Tiwari, U. K. 4399, 7050
Tjaden, G. 4311
Tjernoström, R. 1383
Tkachuk, E. S. 3932, 7168
Tlustoš, P. 631, 7224
Tobin, A. K. 1964
Todd, A. D. 1457, 7998
Todd, J. F. 1203
Todd, J. W. 8388
Todoriki, S. 5205
Todorov, D. 2624
Tofinga, M. P. 3045
Tognetti, J. A. 3175
Tognoni, F. 3563, 3567
Toit, W. du 777
Toko, K. 1731
Tokuda, T. 5245
Tolbert, N. E. 8765
Toledo, N. M. P. 4563
Toler, J. E. 4232, 7524
Tölgyesi, I. 5391
Tollenaar, H. 1406
Tollenaar, M. 3219, 5538
Tollner, E. W. 3518
Toma, M. 137
Toma, S. I. 284
Tomar, D. P. S. 5247
Tomar, G. S. 732, 3351, 4399, 7050
Tomar, N. K. 4751
Tomar, R. A. S. 8226
Tomar, R. K. S. 479, 1241, 7511
Tomar, S. K. 6891
Tomar, S. S. 501, 3351
Tomar, V. P. S. 1987
Tomas, T. N. 3775
Tomasevic, M. 8084
Tomaso, J. M. di 2607, 5578
Tomasović, S. 2460
Tomer, P. S. 938
Tomer, Y. S. 2999
Tomilina, E. E. 1816, 3706
Tomioka, H. 193
Tomita, M. 2653
Tommasi, F. 3989
Tommey, A. M. 5281
Tomooka, N. 2873
Tomos, A. D. 1690, 5794, 8175
Tompkins, D. K. 13
Tonder, H. A. van 606
Tonev, T. 7633
Tong, C. G. 5051, 8422
Tong, H. Y. 5654
Tongoona, P. 8633
Tonigar, D. 7706
Toniuc, A. 7904
Tonk, D. S. 5270, 6532, 8215
Tonk, W. J. M. 790
Tonomura, M. 7543-7544
Tooming, Kh. G. 7948
Toor, H. S. 1845
Tophof, S. 707
Toraby, E. 3242
Torbert, H. A. 1496
Torelli, A. 1042, 4602
Toreta, D. M. 2641
Torikata, T. 6017
Toriyama, K. 3342
Torma, S. 2736
Torne, S. G. 4411, 5902
Torofder, G. S. 5503
Torofder, M. G. S. 7122
Torre, A. de la 7277
Torrent, J. 7060
Torres, J. L. T. 2034
Torres, W. 3636, 3669, 3677, 3793, 4487
Torres A., J. S. 4610, 4614, 8718
Torrigiani, P. 6173
Torrizo, L. B. 2157
Tóth, L. 3621
Totsuka, T. 1030
Touchton, J. T. 1490, 4054
Touraine, B. 993
Tow, P. G. 2425
Townley-Smith, L. 7044
Townley-Smith, L. J. 1230
Toyoda, K. 3251
Toyota, H. 4244
Traas, J. A. 2356
Trabucco, A. 7265, 8028
Tracy, P. W. 435, 2136, 4112
Trainin, T. 2063
Tran Thanh Van, K. 1884, 7000
Traore, S. 2731
Trapani, N. 6961
Trappeniers, G. 2088
Traub, O. 178
Travis, A. J. 6475
Travis, R. L. 740
Trehan, S. P. 5960
Treĭman, A. A. 335
Trejo, C. 8174
Trelease, R. N. 4535
Trémolières, A. 486, 1748, 3006, 3763
Treneman, N. C. 6677
Trent, A. 3704
Trepachev, E. P. 3886, 5425
Tretjak, A. 7956
Treto, E. 4457
Tret'yakov, N. N. 3319, 3329, 4086
Tretyn, A. 1247, 5453
Trewavas, A. J. 546, 4314, 4766
Triboi-Blondel, A. M. 8678
Tricot, F. 3323
Trifonova, M. F. 8408
Trimming, B. A. 8417
Tripathi, B. N. 5635
Tripathi, B. R. 5740
Tripathi, D. P. 8316, 8357
Tripathi, H. N. 5396
Tripathi, H. P. 3341, 5497, 6056
Tripathi, P. 6241
Tripathi, R. 635
Tripathi, R. S. 7787, 8224, 8456
Tripathy, B. C. 7283
Tripathy, J. N. 3379
Triplett, B. A. 6913
Trippi, V. S. 4794, 5606, 6320
Trissl, H. W. 6731
Trivedi, K. K. 881
Trivedi, S. 8049
Troedson, R. J. 361-362, 5115
Trofimova, N. P. 6143
Trojan, V. 8806
Trolinder, N. L. 2331, 8622
Trooien, T. P. 4490-4492
Trotin, F. 5295
Trotus, E. 437
Troxler, J. 706
Trubitsina, E. V. 3063
Trüby, P. 1911
Trudgill, D. L. 4466, 5973
Truelove, B. 3494
Trukhanov, V. A. 1800
Truksa, J. 1493
Trumble, J. T. 4421
Trunova, T. I. 74, 4803, 7924
Truong, H. H. 7610
Truscott, R. J. W. 8676
Trusova, L. A. 6362
Trusova, V. M. 8432
Trust, B. A. 2401
Trzebiński, J. 1135
Tsai, C. Y. 5558
Tsai, J. C. 7961
Tsai, T. W. 7961
Tsai, Y. Z. 3378
Tsakashvili, B. N. 2890
Tsao, C. T. 4291
Tsao, T. H. 6774
Tsatsarelis, C. A. 2905, 6224
Tsay, J. R. 1668
Tschaplinski, T. J. 8351
Tsédév, D. 512
Tsegaye, T. 6594
Tsekhanovīch, Yu. U. 4010
Tsekhanovich, Yu. V. 1915
Tseng, K. J. 5644
Tseng, M. J. 5318
Tseng, M. T. 928
Tsinite, A. 3951
Tsiprush, R. Ya. 6002
Tsoglin, L. N. 1148, 1788, 5207
Tsoĭ, Z. I. 1816, 3706
Tsolova, M. 8732
Tsolova, V. 7702
Tsuchida, M. 894
Tsuchiya, M. 842, 898, 920
Tsuge, M. 1126-1129
Tsuiki, M. 568
Tsuji, H. 2551, 3020, 4951, 6385
Tsukahara, M. 1576
Tsukamoto, C. 7543-7544
Tsukanov, A. F. 1596
Tsukitani, Y. 5288
Tsunarev, S. M. 4077
Tsuprun, V. L. 8415
Tsuru, M. 2545
Tsurumi, S. 5803
Tsutsumi, T. 1126, 2545
Tsuzuki, W. 499
Tsveĭ, Ya. P. 388
Tsvetanova, K. 3808
Tsybul'ko, V. S. 7825
Tsydendambaev, V. D. 73
Tsyganok, S. I. 3141
Tsyganov, A. R. 4402
Tsyupka, V. P. 2733
Tsyuryupa, S. N. 8046
Tszyan' Tszin' 2677
Tu, C. 3383
Tu, C. C. 7961
Tu, J. C. 1630
Tu, S. I. 4072, 5582, 6444, 6451, 6875
Tuan, D. T. 1554
Tuan, S. S. 7863-7864
Tuba, Z. 6947
Tubbe, A. 390
Tuberosa, R. 7201, 7358
Tucher, T. 5963
Tucker, J. S. 3110
Tufail, M. 3595
Tukhtaeva, G. M. 6039
Tunen, A. J. van 2355
Tupper, G. R. 276
Tupý, J. 1886
Turc, O. 366, 2885
Turcotte, E. L. 2961, 4528
Turdean, A. 386
Turgeon, R. 496, 1711, 2857-2858
Türken, I. 3388
Turkhede, A. B. 3569, 4981, 7875
Turkhede, B. B. 5
Turkova, E. V. 2226
Turley, D. 8300
Turley, D. B. 314
Turnbull, N. D. 3676
Turner, C. L. 6906
Turner, F. T. 6492, 7527
Turner, J. 6276
Turner, J. G. 3021
Turner, L. B. 4078
Turner, M. D. 565
Turner, N. C. 3965, 6125, 6214
Turnour, J. 6610
Turski, R. 2739
Tusa, C. 8791
Tutimoto, S. 2652
Tuttobene, R. 821
Tuyen, N. T. 1554
Tverdokhleb, A. M. 614
Twardowski, T. 4404
Twidwell, E. K. 522
Tyagi, C. S. 6683-6684
Tyagi, P. D. 6212
Tyan, V. P. 1506
Tyburski, J. 2298
Tyurev, E. P. 80
Tzen, J. T. C. 811, 1328, 4670
Tzeng, C. M. 350, 5095
Ubugunov, L. L. 7718
Uchida, H. 6547
Uchida, T. 5757, 7543-7544
Uchino, H. 5928
Uchiyama, T. 7935
Udayasoorian, C. 4214, 4525
Uddin, M. B. 4400
Uddin, M. N. 5372
Udovenko, E. A. 383
Uebe, N. 8301
Uebel, E. 8755
Uebersax, M. A. 5840, 6748-6749
Ueda, K. 7260
Uemoto, S. 4418
Uenk, D. 5994
Ueno, H. 1540
Ueno, K. 4140
Ueno, M. 200, 5302
Ueno, N. 2687
Uesaka, N. 5842
Uetaka, T. 1004
Ugherughe, P. O. 5700
Uhart, S. A. 8196
Uheda, E. 1293
Uhlík, J. 8806
Uhrig, J. W. 4884
Ujihara, K. 1404
Ujjinaiah, U. S. 448, 450, 3442
UK, AFRC Institute of Plant Science Research, Cambridge Laboratory, John Innes Institute, Nitrogen Fixation Laboratory & Sainsbury Laboratory 1954

UK, British Standards Institution 4592
UK, Morley Research Centre 584
UK, Processors & Growers Research Organisation 1710
UK, Sugar Beet Research and Education Committee 1356, 2414
Ukraine, Akademia Nauk Ukraini, Kiev 2423
Ukur, A. 1093
Ulemale, R. B. 2981, 2983-2984, 5257
Ulevicienė, R. R. 8063
Ulitskaya, Yu. Yu. 6353
Ulloa, M. F. 1289
Ullrich, S. E. 6365
Ulmann, L. 1452, 2521, 4001
Ulvskov, P. 3531
Ul'yanov, A. N. 8137
Ulyavichene, R. R. 3185
Umapathi, P. N. 676
Umari, M. A. H. 3953
Umarov, A. A. 1816, 3706
Umat, R. K. 5673
Umekawa, H. 5842
Umrani, N. K. 1285
Umrit, G. 4850
Unaegbu, D. 3504
Underhill, E. W. 1860, 2343
Ungaro, M. R. G. 4563
Unger, P. W. 942, 6232
Upadhyay, M. S. 8322
Upadhyay, P. C. 286, 7832
Upadhyay, R. M. 214
Upadhyay, S. M. 948
Upadhyaya, V. K. 2970
Upadhyaya, Y. M. 2463, 3156
Upchurch, D. R. 3713, 3851, 7753, 8622
Upendra Singh 563
Uppal, H. S. 5625, 6072, 8372
Uppal, S. 8058
Uppal, S. K. 7038
Urazaliev, R. A. 2029
Urbano, G. 1719
Urbański, M. 7485
Uribe, E. 849
Uribe, L. 2241
Urich, P. B. 7389
Urinova, Kh. Z. 3706
Urquiaga, S. 5215
Urquijo, Y. R. 7740
Ursache, C. 3282
Ursachi, F. 437, 520
Urushizaki, S. 3377
Uryupina, T. L. 6002
USA, American Meteorological Society 2418
USA, American Society of Plant Physiologists 6211
USA, Board on Agriculture, National Research Council 585
USA, Louisiana Agricultural Experiment Station 6205
USA, North Central Weed Science Society 3876
USA, Ohio Agricultural Research and Development Center 5335
USA, Potato Association of America 3880
Usanova, Z. I. 4810
Usha, V. 6785
Usharova, G. P. 2027
Ushimaru, T. 4951
Usman, B. 4619, 4632
Usmanov, I. Yu. 7189
Ustimenko, I. F. 5165
Usturalı, A. 7849
Usuda, H. 1515
Uteulin, K. R. 3454
Utomo, W. H. 2086, 2264
Utpal Singh 6099
Uttaray, S. K. 5112, 5718
Utzurrum, S. B. 6607
Uyovbisere, E. O. 774, 1502
Uziak, Z. 469
Užík, M. 8031, 8089
Uzo, J. O. 1363
Vaccari, G. 1761
Vachaud, G. 5702
Vad, K. 4660
Vafina, G. H. 7183
Vaganov, E. A. 6333
Vaglio, M. del 1724
Vaid, K. L. 7589
Vaidheeswaran, P. 3517
Vaidyanathan, L. V. 727, 5410
Vaidyanathan, P. 4413
Vaidyanathan Subramanian 5690
Vail, S. S. 2957
Vaintraub, I. A. 2677, 7179
Vaishya, R. D. 4391
Vaishya, U. K. 8500-8501
Vâje, P. I. 6410
Vakal, A. P. 3201
Vakhmistrov, D. B. 3138, 4734
Valanzuolo, S. 1084
Valdés, M. 515
Valè, G. 7268
Valeev, V. M. 2429
Valenghi, D. 6632
Valenzuela, C. R. 1369
Valenzuela, J. L. 2859
Valio, I. F. M. 6885
Valle-Tascón, S. del 3217
Vallejo, R. L. 7737
Valliappan, K. 8728
Val'nikov, I. U. 6629
Valsasina, B. 344
Van Aarle, P. G. M. 112
Van Aartrijk, J. 4695
Van Averbeke, W. 4845
Van Bavel, M. G. 6911
Van Beusichem, M. L. 144, 4694
Van Bruggen, E. F. J. 4473
Van Campen, D. R. 2391
Van Cleemput, O. 3646
Van de Geijn, S. C. 4696
Van de Staay, J. 2057
Van de Venter, H. A. 1529
Van de Vooren, J. G. 4352
Van de Waart, M. 2299, 5994, 6848
Van de Weghe, L. 270
Van de Wiel, C. 8527
Van den Berg, A. 1160
Van den Berg, A. A. 420
Van den Berg, J. 243
Van den Berg, K. 1701
Van den Berg, W. 4294
Van den Bergen, C. W. M. 3662
Van den Muyzenberg, E. 5287
Van der Heide, J. 1908, 2085, 2264, 2310
Van der Heijden, G. W. A. M. 4352
Van der Heijdt, L. M. 6665
Van der Merwe, S. W. J. 6229
Van der Mescht, A. 2304, 5996
Van der Molen, L. G. 8695
Van der Plas, L. H. W. 4695
Van der Putten, P. E. L. 790
Van der Schans, D. A. 4294
Van der Sluis, I. 5204
Van der Sommen, F. J. 2406
Van der Werf, A. 789
Van der Werf, H. M. G. 1199, 4540
Van Deventer, C. S. 684
Van Deynze, A. E. 464
Van Diepen, C. A. 701
Van Duijn, B. 4596, 8695
Van Duivenbooden, N. 4650
Van Duyn, J. W. 989, 4990, 6655
Van Eenaeme, C. 8162
Van Es, C. L. 6189
Van Es, H. M. 6189, 7295
Van Esso, M. L. 8329
Van Ginkel, M. 2024
Van Gulik, W. M. 1257
Van Hasselt, P. R. 8470
Van Heerden, H. G. 2959
Van Houten, H. 1966
Van Huystee, R. B. 313, 2817, 4286, 5030, 6707
Van Ittersum, M. K. 3667, 5945-5946
Van Kessel, C. 8507
Van Keulen, H. 3990, 4685, 6191
Van Laar, H. H. 5383
Van Lammeren, A. A. M. 4576
Van Lanen, H. A. J. 701, 2948
Van Loon, L. C. 707
Van Meirvenne, M. 2278, 2381
Van Montagu, M. 3400, 8519
Van Noordwijk, M. 1908, 2086, 2310, 2313, 4419, 8062
Van Oijen, M. 8574
Van Parijs, R. 1701
Van Raij, B. 3468
Van Ranst, E. 4097, 5459
Van Rees, H. 6194
Van Rensburg, J. B. J. 243
Van Rensburg, L. 6098
Van Rensburg, P. A. J. 816
Van Rheenen, H. A. 1103
Van Sanford, D. A. 652
Van Scoyoc, S. W. 4280
Van Staden, J. 690, 1043, 1762, 3487, 5810, 8179
Van Staden, W. H. 2959
Van Tonder, H. A. 606
Van Tunen, A. J. 2355
Van Volkenburgh, E. 5843
Van Went, J. L. 4601
Van Wijk, K. J. 8470
Van Wyk, A. E. 5107
Van Zweden, J. 7313
Van Zyl, W. H. 2305
Váňa, M. 3848
Vanangamudi, K. 4185, 5901
Vance, C. P. 560, 1110, 4407, 8341
Vance, P. N. 7100
Vančura, V. 4094
Vanden Born, W. H. 2553
Vanden Heuvel, R. M. 1496
VanDenBeldt, R. J. 2174
Vandendriessche, H. 2278
Vandergeten, J. P. 2278
Vanderholm, D. H. 1507
Vanderlip, R. L. 253, 947, 8291-8292
Vandermeer, J. H. 576
Vanderveer, P. J. 3012
VanDerWoude, W. J. 2915
VanDevender, K. W. 1562
Vaněk, V. 631, 8806
Vanhinsberg, N. 4343
Vaníček, K. 3847
Vanlerberghe, G. C. 2358, 6091
Vannier, M. P. 8630
Vannozzi, G. P. 7802
Vansichen, R. 7374
Vanstallen, M. 2278
Vansuyt, G. 6094
Vantard, M. 4875, 6457
VanToai, T. T. 6467
Varadarajan, P. V. 3717
Varadarajulu, N. V. 7015
Varakina, N. N. 5613
Varanini, Z. 8097
Varga, G. 5833
Varga, Z. 5391
Varga-Haszonits, Z. 6317, 6335
Vargas, A. A. T. 3566
Varghese, K. 8219
Varier, A. 5226
Varis, E. 5950
Varlet-Grancher, C. 7101
Varma, G. C. 4532
Varma, S. K. 4318
Varman, P. V. 2812
Varner, G. V. 6748-6749
Varshney, A. K. 3570
Varshney, J. G. 7673
Varshney, K. A. 6811
Varshney, M. L. 4980, 6980-6981
Vartanian, N. 5280
Vartanyan, M. M. 3706
Varvel, G. E. 6416
Vašáková, L. 665, 689
Vasconcelos, E. 8508
Vashi, R. D. 8722
Vasilas, B. L. 2190, 5016, 5773
Vasilenko, V. F. 3191, 7190
Vasil'ev, A. N. 3928
Vasil'ev, D. S. 1944
Vasishtha, A. K. 1209-1210, 3321
Vasquez, E. A. 7743
Vasseur, J. 5295
Vassey, T. L. 3012
Vasyuk, L. F. 6000
Vattuone, M. A. 5985
Vaucheret, H. 4599
Vaughan, D. 3532, 6728
Vaughan, D. H. 574
Vaughan, J. 104, 1463
Vaughn, S. F. 8581, 8784
Vavalin, A. A. 1300
Vázquez, C. 8653
Veau, E. J. I. de 996
Vecchio, G. 8509
Vecchio, V. 5164
Vedove, G. delle 2534
Vedy, J. C. 7255
Veelbehr, E. 6208
Veena Chawla 8058
Veerabadran, V. 2369
Veeranjaneyulu, K. 1684, 3587, 3612
Veeranna, V. S. 6599
Veerashanker, P. 1581, 2706
Veeresh, G. K. 5685
Veeresh, L. C. 3590
Végh, K. R. 2080, 3247
Veierskov, B. 708
Veith, R. 1287
Veitienė, R. 5240
Vejr, B. 6845
Velasco-Ibarra, L. 8192
Veldink, G. A. 112, 5896, 6665, 7550
Veldkamp, T. 6183
Velema, R. 2299, 2939
Velicheti, R. K. 990
Velichkov, D. 2624
Velikova, V. 2624
Veliksar, S. G. 284
Vellanoweth, R. L. 5443
Velu, V. 211
Vencill, W. K. 4531
Vencovsky, R. 4095
Vender, C. 4461
Venediktov, P. S. 5046
Venis, M. A. 8177
Venkata Raju, R. R. 1112
Venkataraman, N. S. 192
Venkataramana, S. 4635
Venkataramu, M. N. 7801
Venkateswarlu, B. 3419, 4959, 5623, 8392
Venkateswarlu, M. S. 1087
Venkateswarlu, S. 8477
Venken, M. 89
Venora, G. 2046
Venter, C. 6705
Venter, H. A. van de 1529
Venter, M. W. 1149
Ventrella, D. 8400
Ventura, A. 7451
Ventura, W. 6526
Venturi, A. 599
Venugopal, N. 448, 7801
Venugopalan, M. V. 6257
Vepraskas, M. J. 760
Vera, C. L. 1377
Vereijken, P. H. 4686
Veres, S. 4838
Vereshchagin, A. G. 73, 3822
Vereshchak, V. N. 4816
Veretel'nikov, V. P. 6347
Vergara, B. S. 185, 3408, 4107, 4142, 8236
Vergnolle, C. 456
Verhees, F. 8507
Verhoef, W. 2404
Verkerke, D. R. 3551
Verkleij, J. A. C. 3114
Verma, A. 365
Verma, B. L. 611, 3701
Verma, D. P. S. 1639, 8771

Verma, H. D. 1280, 7146, 8724
Verma, J. K. 17
Verma, L. P. 4114, 5422
Verma, L. R. 4637
Verma, L. S. 6775
Verma, M. M. 4980, 6980
Verma, N. 5447
Verma, O. P. 981, 1851, 3360, 5720, 6942
Verma, O. P. S. 2718, 6953
Verma, O. S. 1240
Verma, R. P. S. 8035
Verma, S. C. 5981
Verma, S. K. 7141
Verma, S. N. P. 4381
Verma, S. S. 633
Verma, T. S. 6264
Vermes, L. 5391
Vermeulen, G. D. 1934-1935
Vernichenko, I. V. 6869
Vernieri, P. 3563, 3567
Verona, L. A. F. 4181
Veroude, H. 5994
Verplancke, H. J. W. 5402
Verschoor, A. 3776
Verseghy, D. L. 7963
Vershavski, S. 8556
Vertigan, W. A. 4817
Vertucci, C. W. 8528
Verzea, M. 2047
Veselov, S. Y. 4081
Vesmanova, O. Y. 7770
Vessey, J. K. 2221, 2243, 4348-4350, 8425
Vetchinkina, L. H. 6039
Vetter, H. 7486
Vian, V. 2247
Vianello, A. 6724, 7604
Vicente, O. 1886, 2355
Vidal, B. 7856
Vidal, D. 2847
Vidal, J. 4960, 7459
Vidas, R. M. R. 1000
Vidhyasekaran, P. 6541
Vidor, C. 1056
Vidrine, P. R. 3478, 6651
Vieira, C. 4335
Vieira, D. J. 7759, 7766
Vieira, E. H. 4365
Vieira, M. das G. G. 4341
Vieira, N. E. 2763
Vieira, N. R. de A. 4892
Vieira, R. D. 1650
Vieira, R. F. 1617, 8443
Vieira da Silva, J. 3824
Vielemeyer, H. P. 64
Vienne, D. de 5280
Vierling, E. 5911
Vierstra, R. D. 3012
Vigil, M. F. 7343
Viil', J. 8446
Vijayaraghavan, H. 2364
Vĩjială, M. 6147
Vikman, P. 2243
Vikman, P. A. 4348-4350, 8425
Vilău, F. 137
Vilella, F. 6961
Vilella, O. V. 2134
Vilich-Meller, V. 957
Vilkki, J. 6973
Villa, A. 2747
Villa, B. 7384
Villa, M. S. 2034
Villaba, J. M. 8776
Villais, P. 1749
Villalba, J. J. 8293
Villalobos, E. 7908
Villalobos, F. J. 1213-1214, 1217, 1932, 7810, 8660
Villalobos, N. 1738
Villand, P. 4022, 8130
Villanueva, M. A. 5007
Villanueva, V. R. 5802
Villarreal, M. 8543
Villasana, R. 1771
Villegas, F. 4610
Villegas, R. 4618
Villegas-Pangga, G. 4681
Villegas T., F. 4614, 8718
Villela, F. A. 4353
Villemin, G. 3631
Villiers, B. L. de 4739
Villiers, O. T. de 1149
Vimala, P. 2942
Viñas, O. 7955
Vinay Singh 368-369, 3637
Vincens, P. 1010
Vincent, K. A. 8599
Vincent, V. H. B. 5864
Vincentz, M. 4599
Vink, G. S. P. 2959
Vinnik, P. N. 1215
Vinogradova, R. I. 1430
Vintilă, R. 6279
Viot, C. 1185
Vir, B. K. 1187
Vir, D. 6542
Virendra Kumar 7093
Vireshwar Singh 6100
Virgin, H. I. 2946
Virk, D. S. 949-952
Virupakshappa, K. 8659
Visarion, M. 7507-7508, 7915, 7915
Vishnoi, R. R. 7909
Vishnyakova, E. N. 5545, 7328
Vishwakarma, D. N. 3360
Visperas, R. M. 185
Visser, A. F. 2304
Visser, P. L. 4187
Visser, R. 726
Visser, R. G. F. 5216, 6015
Viswambharan, K. 912
Viswanath, D. P. 18
Viswanath, K. P. 5645
Viswanatha, S. R. 1619-1620
Viswanathan, T. V. 7663
Visweswara, N. H. 4165
Vitale, A. 344, 2236, 8309
Vitkare, D. G. 634
Vitlox, O. 7110
Vittal, K. P. R. 3419, 4959
Vivaldi, L. J. 2403
Vivar, H. E. 2432
Vivek 8655
Vizgarra, O. N. 2853
Vizgirda, M. 5148
Vlakenburg, G. W. 1145
Vlasák, M. 6265
Vlasenok, L. I. 7284
Vlassak, K. 2278
Vlek, P. L. G. 2721
Vliegenthart, J. F. G. 112, 5896, 6665, 7550
Vodkov, E. D. 4730
Voevudskaya, S. Yu. 3758, 6982, 8687
Vogel, H. 8152
Vogel, J. 2926
Vogel, S. 5266
Vögeli, U. 3767
Vögeli-Lange, R. 3767
Vogelsang, R. 6808, 7670
Voges, E. 8703
Vogt, E. 6392
Vogt, T. 5277
Vogtmann, H. 3687, 4458
Voinescu, G. 452
Voĭnikov, V. K. 4773, 5613
Voit, B. 1610
Voĭtenko, S. I. 1302
Vokál, B. 6862
Voldeng, H. D. 4270
Voleti, S. R. 6561
Volk, G. 4989
Volk, R. J. 538, 4861, 5739
Volkenburgh, E. van 5843
Volkov, P. S. 3619
Voller, P. 2406
Volovik, O. I. 320
Volpe, C. A. 2123
Voltan, R. B. Q. 1716
Voltas, J. 739
Volterrani, A. 3974
Volynets, N. F. 8757
Vomastková, M. 665, 689
Von Baer, D. 5899, 7979
Von Boguslawski, E. 7916
Von Bothmer, R. 751, 3262
Von Caemmerer, S. 3453, 3769
Von Tucher, T. 5963
Von Wirén, N. 4862
Vondraš, J. 749
Vonella, A. V. 3044, 8400, 8790
Vooren, J. G. van de 4352
Voorhees, W. B. 820, 7312
Vories, E. D. 7754, 8218
Vorob'ev, L. N. 6288
Vorob'ev, N. V. 2151
Voronchikhin, V. V. 8440
Voronina, I. P. 8662
Voronkova, F. V. 1764
Voropaeva, N. L. 2326
Vörösbaranyi, I. 1013
Vorovenci, O. 160
Vorster, H. J. 2304
Vos, G. J. M. 7255
Vos, J. 1150-1151, 3539
Vos, N. M. de 4024
Vostal, J. 631, 7224
Vowles, D. 8299
Voziyan, V. I. 4760
Vrânceanu, A. V. 452
Vraneš, S. 7506
Vreeke, S. 4538
Vreugdenhil, D. 1791, 5990
Vries, F. W. T. P. de 5100, 5102, 5383
Vullioud, P. 2342, 7698
Vulsteke, G. 7969, 8402-8403
Vyakaranahal, B. S. 354, 462, 676, 5781
Vyas, M. D. 7513, 8379
Vyas, M. K. 3356
Vyas, S. P. 6934
Vyn, T. J. 757, 3219, 5538, 6417
Waananen, K. M. 2650
Waart, M. van de 2299, 5994
Wachowicz, M. 2289
Wada, M. 675, 2660
Wada, S. 2670-2672, 4889-4890, 4913, 4944, 5078, 7436
Wada, T. 904, 3109
Waddington, S. R. 2579
Wade, L. J. 6591-6593, 7444
Wadia, K. D. R. 6708, 6712
Waegemann, K. 321, 6719
Waele, D. de 6705
Wafula, N. J. 1437
Wagger, M. G. 760, 4043-4044, 6423
Wagh, R. G. 8651
Waghorn, G. C. 3448
Waghulde, J. K. 7876
Wagner, A. M. 3662
Wagner, B. A. 4874
Wagner, G. 1247
Wagner, G. J. 3015
Wagner, K. 6958
Wagner, M. 7941
Wagner, S. W. 825
Wahab, K. 7880
Wahab, W. 6113
Wahba, S. A. 5821-5822
Wahbi, A. 105
Waines, J. G. 6305
Waisel, Y. 6720, 7113
Wajant, H. 5688
Wakabayashi, K. 788
Wakhlu, A. K. 7671
Wakjira, A. 8383
Walbot, V. 6456
Waldia, R. S. 1739
Waldren, R. P. 1437
Waleriańczyk, E. W. 2294
Walia, A. S. 5625, 6693
Walia, U. S. 772, 8242, 8683
Waligóra, H. 7311
Waliyar, F. 7575
Walker, A. 3472
Walker, D. 4704
Walker, D. R. 4813
Walker, G. P. 4421
Walker, G. R. 896
Walker, J. N. 1255-1256
Walker, K. C. 473, 1854, 6066
Walker, L. P. 2552
Walker, R. P. 6300
Walker, S. 1330, 8294
Walker, S. R. 242
Walker, W. M. 2190
Wallace, A. 244, 6153, 6156
Wallace, G. A. 6153, 6156
Wallace, J. C. 4459, 7642
Wallace, J. F. 7938
Wallace, R. W. 4465, 8567
Wallace, S. U. 3460
Waller, G. R. 6309
Wallinga, J. 1130
Wallis, E. S. 361
Walmsley, J. 748, 7273-7274
Walsh, J. L. 1948
Walsh, K. B. 382
Walsh, W. C. 2473
Walter, J. M. N. 6014
Walter, W. M., Jr. 4500
Walters, D. T. 2100
Walther, U. 2016, 7134
Walton, L. R. 1255-1256
Walton, R. B. 2469
Wan, L. 313
Wang, B. 4918
Wang, B. D. 6566
Wang, B. K. 3860
Wang, B. S. 3249
Wang, B. X. 4770
Wang, B. Y. 2809
Wang, C. F. 795
Wang, D. R. 6478
Wang, D. X. 1445, 7479
Wang, F. T. 6560
Wang, G. C. 6556
Wang, G. Q. 7547
Wang, G. W. 2952
Wang, H. 296, 2630, 5452
Wang, H. C. 2507
Wang, H. L. 6289
Wang, H. Y. 6533
Wang, J. 2944, 3013, 3015, 4763, 8247, 8781
Wang, J. L. 7872
Wang, J. S. 3208
Wang, J. W. 4145
Wang, L. C. 959
Wang, L. H. 1694, 2944
Wang, L. K. 8036
Wang, M. 5532
Wang, M. C. 8214
Wang, M. Y. 350, 2180
Wang, N. 6287
Wang, P. H. 2503, 4767
Wang, P. Z. 359
Wang, Q. 6878
Wang, Q. B. 1445, 1973
Wang, R. X. 5747
Wang, S. G. 3389
Wang, S. H. 8239
Wang, S. J. 359
Wang, S. L. 2531
Wang, S. M. 1516, 5768
Wang, S. T. 7828
Wang, T. 7533
Wang, W. Q. 317-318
Wang, X. 443, 5279
Wang, X. C. 6511
Wang, X. F. 855, 6511
Wang, X. G. 1310, 5721
Wang, X. L. 6334
Wang, X. M. 4451
Wang, X. T. 2487
Wang, X. Z. 2591, 4151
Wang, Y. C. 8101-8102
Wang, Y. H. 204, 1190, 6533, 6908
Wang, Y. L. 3860, 6552, 7142
Wang, Y. M. 1634
Wang, Y. P. 7344, 8214
Wang, Y. Q. 2495, 6334
Wang, Y. S. 5651
Wang, Y. Z. 3794, 5759
Wang, Z. L. 959, 3402
Wang, Z. Q. 4942, 7504
Wang, Z. R. 1629
Wang, Z. Y. 3179, 4657, 6166
Wanjari, S. S. 8280
Wanjura, D. F. 1947, 7753
Wankhade, S. G. 3147, 5220, 6601, 6768, 8459
Wankhade, S. T. 6888, 8600
Wankhade, S. Z. 7584
Wankhede, S. Z. 5038, 6698, 6925

Wannamaker, M. J. 5968
Ward, B. L. 5191
Ward, J. M. 86, 3988
Ward, J. T. 3633
Ward, K. 475
WARDA 5368
Wardlaw, I. F. 6289
Wareing, D. 8554
Warmbrodt, R. D. 996
Warneck, H. 6729
Warner, D. A. 158, 8624
Warner, R. L. 4019
Warnes, D. D. 4209, 4211
Warren, H. L. 5558
Warshavsky, S. 5946
Warsi, A. S. 4114, 5422, 7590
Warunick, D. R. N. 4045
Waschl, H. 5966
Wasilewska, B. 1811, 5211
Waskom, R. M. 2168
Wasnik, K. G. 5856
Wassif, M. M. 5421
Wassimi, N. 6748
Wasternack, C. 5531
Wastie, R. L. 2941
Wasylciw, W. M. 7819
Waszkiewicz, C. 8553
Watanabe, A. 7419
Watanabe, H. 1574, 1967
Watanabe, I. 6526, 7406
Watanabe, K. 2691
Watanabe, M. 2344
Watanabe, S. 1557-1558
Watanabe, T. 3077
Watanabe, Y. 2344
Water and Irrigation Review 6030
Waterer, J. G. 2221
Waters, I. 3199
Waters, L., Jr. 3337
Waters-Bayer, A. 1346
Watkin, E. L. J. 5462
Watkins, P. A. C. 1689
Watson, A. 5815
Watson, G. A. 2921
Watson, M. D. 5374, 6967
Watson, R. D. 5386
Watt, J. 8502
Wattenbarger, D. W. 3148
Watterson, J. J. 2167, 4177
Wattimena, G. A. 8584
Watts, C. W. 694
Wax, L. M. 3477, 3484, 6438
Weaich, K. 2642
Weatherman, R. V. 2990
Weathers, P. J. 1842-1843
Weaver, C. D. 6663, 8337
Weaver, D. B. 4237
Webb, A. A. 6588
Webb, B. D. 8237
Webb, J. A. 3759
Webb, J. R. 1503-1504, 4057
Webb, M. J. 3935, 7148
Webb, M. S. 4802
Webb, R. E. 5968
Webber, C. L., III 7780
Weber, C. 102
Weber, E. 2887, 3601
Weber, H. C. 3416, 8430
Weber, L. 3673
Weber, L. E. 7009
Weber, N. 1860
Webster, C. P. 8010
Webster, J. D. 2768
Webster, J. R. 7128
Webster, W. B. 1186
Wedding, R. T. 2618, 2620, 3308
Weekes, J. 7928
Weerakoon, W. L. 857, 5141, 7046
Weerathaworn, P. 2634
Weghe, L. van de 270
Weginwar, D. G. 2814
Wegmüller, U. 7087
Węgrzyn, S. 3128
Wei, D. M. 6433
Wei, M. L. 5652
Wei, W. X. 6908
Wei, X. M. 5750
Wei, Y. M. 6271
Wei, Y. Z. 4243
Wei, Z. M. 4360, 7076, 8267
Wei, Z. X. 4580
Weideman, F. 1481
Weidhase, R. A. 3768
Weidmann, G. 7134
Weigel, H. J. 5087, 7648
Weigelt, H. 8629
Weigelt, W. 2442
Weilenmann, F. 636, 706, 711, 963, 2025, 3155, 3220, 4741, 6273-6274, 6354-6355, 6372-6373, 6632
Weiler, E. W. 8135
Weimar, S. 4846
Weiner, J. 557
Weinstein, L. H. 3987
Weir, A. H. 3182
Weir, R. G. 6215
Weis, E. 533
Weischet, W. 7985
Weisenseel, M. H. 4872
Weiss, A. 1497, 5554
Weiss, J. 678
Weissenböck, G. 6449
Weissert, P. 64
Welacky, T. 6244
Welander, N. T. 5817
Welbaum, G. E. 5316
Welch, R. M. 2391, 5520-5521, 7599, 8413
Wele, A. D. 7876
Wells, B. R. 3343, 3348-3349
Wells, K. L. 5570
Wells, L. 4283-4284
Wells, R. 4213
Wells, X. E. 3561
Welti, D. 5757
Welty, B. A. 7596
Wen, C. S. 5318
Wen, J. Q. 5852
Wen, Q. X. 1904
Wendler, C. 3745
Wendler, R. 1287
Wendt, C. W. 2724
Weng, J. 71
Wenninger, A. 1610
Went, J. L. van 4601
Werck-Reichhart, D. 8775
Werf, A. van der 789
Werf, H. M. G. van der 1199, 4540
Werner, A. 15, 7824
Werner, D. 1663, 4424, 5744
Werner, W. 7324
Wernicke, W. 3027
Wert, V. 8176
Wery, J. 366, 2885
Weryszko-Chmielewska, E. 4304, 7210
Weselake, R. J. 2343, 8674
Wesley, R. A. 272, 276, 1611, 3804
Wesołowski, M. 7988, 8113
Wesseler, J. 7489
Wessolek, G. 5499
West, C. A. 890
Westerman, R. L. 3980
Westermann, D. T. 3663, 4449
Westfall, D. G. 8017
Westgate, M. E. 7549
Westphal, A. 1775, 3643
Wetzel, A. 4424
Wetzstein, M. E. 4235
Wevelsiep, L. 4023
Wex, K. 4424
Wey, C. K. 4218
Wheaton, G. A. 7938
Wheeler, D. M. 2486, 2488, 3064, 7172
Wheeler, R. M. 55, 5432, 6284
Whelan, J. 2775, 8337
Whelan, T. M. 1521
Whisler, F. D. 5235
Whitbread, M. W. 7029
White, E. 5188
White, J. 1855, 6409
White, J. W. 345
White, L. M. 4121, 4125, 8238
White, P. J. 2528
White, R. G. 4873
White, R. J. G. 2663
Whitehead, A. G. 2296, 5972
Whitehead, R. 896
Whitehouse, P. 6280
Whitelegge, J. P. 7595
Whitfield, D. M. 615, 6064, 6194
Whitney, D. A. 2162
Whitney, N. G. 7527
Whittaker, A. D. 5236
Whitwell, T. 3460
Whytock, G. P. 3879
Wiberg, E. 470
Widders, I. 8176
Widdowson, F. V. 1457
Widholm, J. M. 7536
Widianto 2313
Widstrom, N. W. 6434-6435
Wiebold, W. J. 7300
Wiedenhoeft, M. H. 7906
Wiedenroth, E. M. 5477, 8081
Wiegel, J. 2696
Wiel, C. van de 8527
Wielicki, W. 5364
Wiemken, A. 5528-5529
Wien, R. G. 2473
Wiercioch, T. 2505
Wiersum, K. F. 1967
Wiesler, F. 152, 3303, 8169
Wiesner, L. E. 3924
Wigge, B. 8128
Wigneron, J. P. 8353
Wijk, K. J. van 8470
Wijlhuizen, M. 1199
Wikins, D. E. 1459
Wiktorsson, B. 664, 6298, 6301-6302, 8061
Wilcox, A. L. 4995
Wild, A. 3745
Wild, D. J. C. 2488
Wilde, G. E. 8040
Wildhagen, H. 3685
Wilding, J. 4700
Wiles, L. J. 2762
Wilfred Mwangi 2019
Wilhelm, W. W. 2042, 7215
Wilhite, D. A. 5608-5609
Wilimowska-Pelc, A. 4446
Wilke, B. M. 7370
Wilke, I. 8634
Wilkerson, G. G. 2762
Wilkin-Wells, J. 7910
Wilkins, D. E. 6234
Wilkinson, C. A. 6993-6994
Wilkinson, E. M. 1687
Wilkinson, G. G. 8803
Wilkinson, J. R. 4562
Wilkinson, M. C. 4364
Wilkinson, R. E. 2169, 2509, 2710, 7458, 7468-7469
Willard, T. S. 2764
Willardson, L. S. 6042
Wille, M. J. 3680
Willeford, K. O. 2618
Willett, M. J. 5365
Williams, C. N. 1363
Williams, D. 3647
Williams, D. A. 4083
Williams, D. J. 3642
Williams, I. H. 3735
Williams, J. C. 2308-2309
Williams, J. H. 352, 2174, 3506, 6712, 7581, 8380, 8398
Williams, J. H. H. 5794, 6296
Williams, J. P. 532, 2068, 5275
Williams, J. R. 459, 577, 3270
Williams, P. 8004
Williams, P. T. 7482
Williams, R. 3725
Williams, R. H. 6920-6921
Williams, R. O. 3686
Willison, J. H. M. 5999
Willmitzer, L. 1317
Willows, R. D. 1696
Wilson, B. 588
Wilson, C. 2867
Wilson, C. E., Jr. 3348
Wilson, D. O. 7555
Wilson, D. O., Jr. 5544, 6746
Wilson, D. R. 3682, 5968, 7188
Wilson, G. W. 5346
Wilson, J. D. 3189
Wilson, J. M. 4155
Wilson, J. P. 8083
Wilson, K. A. 2776, 2779
Wilson, M. I. 8679
Wilson, P. W. 8595
Wilson, R. 6068
Wilson, R. G. 2907, 4434
Wilson, R. L. 7010
Wilson, S. B. 5161
Wilson, W. S. 5410
Wiltshire, G. H. 6236
Wimmer, J. 7079
Winfree, S. K. 3281
Wingsle, G. 2076
Winiger, F. 6632
Winiger, F. A. 2933
Wink, M. 5349
Winkelmann, H. H. 3651
Winkler, H. 8024
Winslow, M. D. 6546
Winter, H. 110
Winter, S. R. 2577, 7999
Winters, A. L. 6296
Winzeler, H. 636, 706, 711, 2025, 3155, 3220, 4741, 6273-6274, 6354-6355, 6372-6373
Winzeler, M. 636, 706, 711, 2025, 3155, 3220, 4741, 6273-6274, 6354-6355, 6372-6373
Wirén, N. von 4862
Wirth, E. 5516
Wise, R. R. 2329
Wiseman, A. J. L. 8826
Wiseman, J. S. 3661
Wiskich, J. T. 7539
Wiśniewski, K. 2275, 2291
Wiśniowska-Kielian, B. 6162
Wissemeier, A. H. 2875, 3065
Wit, C. T. de 1347
Withers, P. J. A. 1853
Witney, B. D. 8546
Witt, M. D. 6370
Witty, J. F. 373, 5743, 8510-8511
Wivstad, M. 7117
Wixson, M. B. 1341
Wohuinangu, J. S. 4914
Wojciechowicz, T. 6161-6162
Wojcieska, U. 5490
Wójcik, S. 4440
Wójcikowska-Kapusta, A. 2739
Wold, F. 7644
Wolf, B. 1366
Wolf, D. 5828, 6741
Wolf, J. 4685
Wolf, S. 4486, 6877
Wolfe, D. W. 6065
Wolfenden, J. 1337
Wolff, A. B. 6763
Wollenhaupt, N. C. 7316, 8157
Wolska, E. 5490
Wolswinkel, P. 535, 2828
Won, Y. J. 237
Wondi Mersie 1654
Wong, D. 5275
Wong, J. H. 51
Wong, P. P. 1713
Wong, S. C. 5077, 5344
Wong Yen Cheong, K. 401
Woo, K. C. 4792-4793, 5342
Wood, C. W. 435, 983, 4054, 7132
Wood, D. R. 7638
Wood, D. W. 1457
Wood, I. M. 6592
Wood, R. 5717
Wood, R. K. 761
Woodbury, P. B. 3987
Woodend, J. J. 8052
Woodruff, D. R. 2744, 3209
Woods, D. L. 482
Wookey, P. A. 2572, 4562
Wooley, J. N. 2576
Woolston, C. R. J. 1409
Woolum, B. K. 7209
Worku, M. 2727
Worley, J. W. 8283
Worsham, A. D. 3765

Wortmann, C. S. 2235, 5829
Woźniak, W. 3900
Woźny, A. 5352
Wray, J. L. 2561
Wright, A. C. 3241, 3245
Wright, D. N. 1776
Wright, G. C. 309-310, 5786
Wright, G. M. 3661
Wright, J. 1108
Wright, K. M. 4799, 6190
Wright, M. A. 5365
Wright, M. J. 983
Wright, R. J. 691, 851, 3197, 7209, 7456
Wright, S. D. 6736
Wright, S. F. 7555
Wrigley, C. W. 699, 8077
Wrobel, R. 4826
Wu, A. 4163
Wu, A. Z. 444, 1029
Wu, B. L. 1646
Wu, B. Z. 6657
Wu, C. A. 7863-7864
Wu, C. Y. 908
Wu, D. B. 1984, 6123
Wu, D. H. 3576
Wu, D. Q. 3307
Wu, D. R. 3575
Wu, F. S. 1567
Wu, G. N. 8265
Wu, G. R. 1646
Wu, H. 6285, 6910
Wu, H. M. 2996
Wu, J. 5750
Wu, J. D. 8267
Wu, J. P. 5660
Wu, K. K. 505
Wu, L. 6971
Wu, L. H. 8249
Wu, M. C. 5741
Wu, M. Q. 4918
Wu, M. X. 2620, 3308, 4867
Wu, P. 4101
Wu, R. S. 5654
Wu, S. H. 2156
Wu, S. J. 3359
Wu, S. T. 7509
Wu, S. Y. 1516
Wu, W. 855, 6511
Wu, X. C. 5748
Wu, X. D. 3836
Wu, X. F. 2556
Wu, X. J. 3362, 6523
Wu, Y. 6513, 8698
Wu, Y. C. 870
Wu, Y. J. 4745
Wu, Y. L. 2956
Wu, Y. W. 6529
Wu, Y. Y. 6286
Wu, Y. Z. 910
Wu, Z. 4735
Wuest, S. B. 619-620
Wulijarni-Soetjipto, N. 8822
Wullschleger, S. D. 432, 1823, 2188, 2325, 6151
Wurzinger, A. 1936
Wustman, R. 418
Wutke, E. B. 1716
Wutoh, J. G. 3697
Wyatt, S. E. 6099
Wych, R. D. 7208
Wyk, A. E. van 5107
Wylde, A. 6605
Wyn Jones, R. G. 1435, 5472
Wynne, J. C. 8387
Wyse, D. L. 5587
Wysocka, W. 6819
Wytock, G. P. 8672
Xaviar, A. 2662
Xavier, A. 5873
Xavier-Filho, J. 1329
Xia, J. H. 2127
Xiang, S. Y. 2654
Xiao, C. Z. 5741
Xiao, N. H. 7509
Xiao, Y. H. 4942, 6555
Xiao, Z. C. 7142
Xie, F. T. 5721, 5747
Xie, H. A. 868
Xie, J. C. 6518
Xie, K. J. 2138
Xie, K. Y. 8277
Xie, L. S. 6519
Xie, Q. 6908
Xie, R. X. 4900
Xie, X. J. 1634
Xie, Z. C. 1547
Xin, Z. G. 2638, 4882
Xiong, D. Z. 6123
Xiong, F. S. 6560, 8332
Xiong, J. 294
Xiong, J. H. 6533
Xiong, L. M. 5636
Xiong, Z. M. 4699, 8213
Xu, A. B. 4833
Xu, B. 1634, 5753
Xu, B. C. 3366
Xu, B. G. 221
Xu, D. Q. 4767, 6285, 7531
Xu, F. X. 831
Xu, J. G. 4827
Xu, J. K. 6552
Xu, L. F. 2654
Xu, L. G. 6397
Xu, M. D. 3391, 7001
Xu, P. 7872
Xu, R. J. 1258
Xu, S. M. 5745, 5749
Xu, X. 1192, 3720, 7467
Xu, X. D. 5689
Xu, X. Q. 1904
Xu, X. Z. 6286
Xu, Y. 207, 2138, 6408
Xu, Y. H. 2591
Xu, Y. J. 5030
Xu, Y. L. 3773
Xu, Y. S. 1232
Xu, Y. Z. 3720, 4537
Xu, Z. F. 359, 2010
Xu, Z. H. 876, 4062-4063, 4360, 6079, 7076, 7315, 7842, 8267
Xu, Z. W. 4378
Xuan, J. X. 8051
Xuan, Y. S. 3316
Xue, S. 4767
Xue, Y. L. 4929
Yabe, I. 2353
Yada, R. Y. 6103
Yadav, A. C. 6178
Yadav, B. 8476
Yadav, B. D. 7470
Yadav, D. S. 3120, 4114, 5878, 8480, 8485, 8808
Yadav, G. L. 17
Yadav, G. P. 4921
Yadav, J. P. 6621, 6978
Yadav, K. S. 2321
Yadav, L. N. 7511
Yadav, M. P. 3341
Yadav, N. D. 5878, 8480
Yadav, N. S. 6641
Yadav, R. A. 4902, 6485
Yadav, R. B. 7048
Yadav, R. C. 1348, 2427, 6984
Yadav, R. D. S. 1872
Yadav, R. K. 5880
Yadav, R. L. 337, 507, 7026
Yadav, R. P. 2321, 7587
Yadav, S. 8322
Yadav, S. R. 5212
Yadav, U. S. 2970
Yadav, V. K. 3257
Yadava, A. 1808
Yadava, T. P. 1249, 8397
Yaduraju, N. T. 3949, 6277
Yadvinder Singh 3915
Yagodin, B. A. 4736, 5238, 6869, 8768
Yagodina, M. S. 5425
Yaguzhinsky, L. S. 7597
Yahalom, A. 178
Yajima, M. 927, 2788
Yakir, D. 2399, 7530
Yakovlev, K. I. 5593, 7357
Yakubova, E. V. 3928
Yakubova, M. M. 8619
Yakunin, A. F. 858
Yalovsky, S. 2207
Yalpani, N. 2526, 3216, 6092
Yamada, A. 7430
Yamada, M. 3050
Yamada, T. 1681
Yamada, Y. 1575, 6997
Yamafuji, K. 1731
Yamagami, T. 7236
Yamaguchi, H. 5841, 7417
Yamaguchi, I. 1404, 3077, 7889
Yamaguchi, J. 4952, 8311
Yamaguchi-Shinozaki, K. 1569
Yamai, M. 5245
Yamaji, E. 2653
Yamaleev, Ya. M. 7205
Yamamoto, A. 219
Yamamoto, H. 5191
Yamamoto, R. 7662
Yamamoto, Y. 7423-7425
Yamanaka, A. 4774
Yamane, H. 4933
Yamane, M. 969, 7301
Yamane, T. 201, 531
Yamanishi, H. 2870, 5665
Yamano, H. 2778
Yamaoka, Y. 7873
Yamauchi, D. 5078
Yamauchi, M. 5650
Yamauchi, T. 994, 4996
Yamaya, T. 891, 4925, 5653
Yamazaki, K. 805, 3395, 4379, 8209
Yamazoe, Y. 5661
Yamoah, C. F. 3056
Yan, B. 3402
Yan, C. J. 746
Yan, D. Y. 4566
Yan, F. 2639
Yan, H. J. 4833, 6402
Yan, J. X. 5654
Yan, L. 6256
Yan, L. V. 1229
Yan, Q. C. 6408
Yan, Q. F. 4833
Yan, X. L. 2160-2161, 5515
Yanai, I. 4897
Yanase, M. 4476
Yancheva, D. 3770
Yang, C. B. 2250
Yang, C. H. 5028
Yang, C. L. 3188
Yang, C. M. 4152-4153, 5610, 8164, 8272
Yang, C. R. 2531
Yang, D. C. 223, 3491, 7867
Yang, D. S. C. 1454
Yang, J. B. 7076, 8267
Yang, J. H. 841
Yang, K. P. 4145
Yang, K. S. 7030
Yang, L. Z. 6493
Yang, P. C. 7021
Yang, S. J. 8547
Yang, S. L. 3860
Yang, S. X. 6282
Yang, T. 5808
Yang, T. C. 5644
Yang, W. 6555
Yang, W. J. 5749
Yang, X. H. 3957
Yang, Y. C. 6624
Yang, Y. F. 6132
Yang, Y. M. 6316
Yang, Y. Z. 1411
Yang, Z. G. 6007
Yang, Z. H. 6774
Yang, Z. O. 1392
Yang, Z. S. 1992
Yanni, Y. G. 300, 925, 1541, 1659, 4115, 6512, 6827
Yano, K. 3368
Yanovskiĭ, A. F. 4402
Yanusa, I. A. M. 1431
Yao, D. Y. 1834
Yao, F. D. 5279
Yao, F. Y. 1193
Yao, K. 8451
Yao, M. H. 7961
Yao, N. R. 2312
Yao, Y. 5759
Yapa, L. G. G. 7369
Yargattikar, A. T. 6689
Yarham, D. 6276
Yarmīshyn, A. P. 3671
Yaronskaya, E. B. 5449
Yarovoĭ, V. M. 1770
Yashwant Singh 7393
Yasin, M. 2051
Yasuda, T. 7692
Yasuhara, H. 6097
Yasumura, M. 5924
Yasutake, T. 7245
Yatomi, M. 7733
Yavorskaya, V. K. 95
Yavtushenko, V. E. 7483
Yayock, J. Y. 2755
Yazan, G. 7849
Yazar, A. 1332
Yazdansepas, A. 5409
Ybema, R. 8627
Ye, J. 7644
Yea, J. D. 6568
Yeagaonkar, G. V. 7785
Yeates, S. J. 6771
Yee, B. C. 51
Yeh, H. Y. 6758
Yeh, M. S. 1648, 4258-4259, 5009, 8346
Yehia, Z. R. 6437
Yellamanda Reddy, T. 1090
Yellshetty, S. 5685
Yelverton, F. H. 3765
Yen, L. F. 809
Yen, S. R. 1668
Yeoman, M. M. 5290, 5294
Yeong, N. H. 2942
Yera, M. 8582
Yerande, R. 8409
Yeung, E. C. 5468, 6070
Yibirin, H. 7307
Yie, Y. L. 3346
Yilma, Z. 1970, 1998
Yin, C. R. 2014
Yin, J. L. 1469
Yin, S. A. 8547
Yin, S. M. 2688
Yin, T. F. 5765
Yin, X. C. 876
Yin, Z. H. 5516, 7011-7012
Ying, C. Y. 4929
Ying, J. F. 6478, 6497
Ying, Q. Z. 4814
Yläranta, T. 2511
Ylstra, B. 2355
Yokomura, E. I. 4342
Yokoo, N. 2691
Yokosawa, H. 4408
Yokota, T. 5658, 5804, 6019
Yonemoto, T. 7003
Yoneyama, T. 1572
Yonts, C. D. 2907
Yoo, C. H. 4891
Yoon, E. B. 4804
Yoon, J. T. 4978
Yoshida, I. 4103
Yoshida, N. 1640
Yoshida, S. 902, 1723, 6396
Yoshida, T. 2678, 3689
Yoshihara, T. 5193, 5196
Yoshikawa, R. 1404
Yoshikawa, T. 5671
Yoshimura, T. 1005
Yoshinaga, M. 3689
Yoshinaga, S. 4374
Yoshioka, H. 1681, 2919
Yoshishige, M. 4659
Yotsushima, K. 4928, 6549
You, C. B. 5670
You, M. G. 5748
You, N. S. 869
You, S. P. 6397
Youn, K. B. 4804
Young, A. 8831
Young, I. M. 7731
Young, L. D. 276
Young, S. 2775, 5278
Young, S. D. 846
Young, X. K. 5047
Youngquist, J. B. 933
Younis, M. A. 7371
Younis, M. E. 326, 8453
Yousaf, C. M. 3595
Yousaf, M. 2140
Yousefi, A. 3234
Yousif, G. 2973
Youssef, M. M. A. 8041

Ypey, D. L. 4596, 8695
Yruela, I. 1759, 5153
Yu, C. J. 308
Yu, J. 5633
Yu, J. W. 4792-4793, 5342
Yu, J. Y. 3366
Yu, M. Y. 5279
Yu, Q. Y. 3728
Yu, R. 3372
Yu, S. W. 2790, 3497, 3773, 5085
Yu, T. H. 4900
Yu, X. H. 5633
Yu, X. L. 4930
Yuan, G. Y. 2341
Yuan, H. G. 876
Yuan, M. B. 4833
Yuan, S. 8205
Yuan, Z. L. 795
Yucel, M. 6569
Yuldashev, Kh. Yu. 6907
Yule, D. F. 1593, 6797
Yun, K. Y. 3491
Yun, S. H. 915, 6559, 6565
Yunusa, I. A. M. 5401
Yunusov, N. L. O. 813
Yupsanis, T. 655
Yurchenko, V. M. 7202
Yurtsever, N. 8016
Yusuf, Y. 6687
Yusukhno, T. V. 8069
Zabel, S. 616
Zaborin, A. V. 960
Zabotina, O. A. 4577, 8705
Zach, M. 1336
Zachariassen, J. A. 6829
Zachow, B. 5197
Zade, N. G. 6924
Zadernowski, R. 2900, 3779
Zadneprovskiĭ, R. P. 141
Zaffuto, G. 8669
Zagade, M. V. 4126
Zahari, A. B. 5649
Zaheer, S. H. 75
Zahid, A. R. 4627
Zahradníček, J. 3618, 3620, 6845
Zaicou, C. M. 3164
Zaifnejad, M. 258
Zaika, P. M. 393
Zaina, S. 2680, 8254
Zaiter, H. Z. 5088, 7637
Zaitoun, F. M. F. 8430
Zając, T. 2066
Zak, E. A. 4328, 7184, 8436
Zakharchenko, V. N. 4269
Zakharenko, A. V. 3226
Zakharov, V. N. 1990
Zaki, Z. H. 2135
Zakordonets, O. A. 5408
Zakrzhevskiĭ, D. A. 3259, 8140
Zalensky, A. O. 5057
Zalewski, J. C. 5199
Zalewski, S. 1941
Zamă, E. 96, 3233, 7484
Zaman, A. 8647
Zaman, M. W. 1231
Zaman, Z. 1894
Zamaraev, A. G. 1933, 6262
Zammit, A. 4998
Zamolodchikov, D. G. 4315
Zamora, A. B. 7736, 8583
Zamora, O. B. 4142
Zamski, E. 1762
Zan, F. del 4470
Zandomeni, K. 8195
Zandvoort, E. A. 6884
Zanewich, K. 5862
Zanini Neto, J. A. 4654
Zannoni, D. 8412, 8538
Zapata, F. 6773, 8333
Zapata, F. J. 908, 2157, 4938, 4940
Zăpîrțan, M. 250
Zardini, E. 1250
Zarezova, G. N. 673
Zarishnyak, A. S. 5922, 7700
Zarogiannis, V. 4427
Zarra, I. 6807
Žárský, V. 1886
Zastrizhnaya, O. M. 3259, 7064, 8140
Zavadil, J. 1246
Zawiślak, K. 2298
Zefelippo, M. 8042
Zehr, U. B. 2767
Zeiger, B. 3933
Zeiger, E. 2961, 5070-5071
Zelená, E. 2075
Zelený, F. 2075
Zelinschi, C. 6147
Zemanas, J. A. 8063
Zemánek, M. 736
Žeménas, J. 3950
Zemlianoĭ, A. I. 1132
Zemlyanukhin, A. A. 1531
Zeng, H. B. 2044
Zeng, X. B. 2918
Zentner, R. P. 3145, 3180, 3903-3904, 4710, 4728, 6223
Zer, H. 4297
Zerargui, H. 1466
Zerbi, G. 70
Zerulla, W. 624
Zettle, R. 5591
Zewdie, L. 1998
Zewdu Yilma 1970, 1998
Zeywar, N. S. 5230
Zgórska, K. 5195, 5210
Zha, J. J. 4867
Zhai, X. J. 6382
Zhan, Y. X. 444, 1029
Zhang, B. 4934
Zhang, C. L. 2139, 6468
Zhang, C. S. 3355
Zhang, C. Y. 824
Zhang, D. 7001
Zhang, D. Q. 2654, 3748
Zhang, D. R. 7547
Zhang, D. T. 2382
Zhang, D. Y. 2010
Zhang, F. H. 359
Zhang, F. M. 4378
Zhang, F. S. 965, 2031, 4752
Zhang, F. X. 3355
Zhang, G. 5604
Zhang, G. C. 3173
Zhang, H. 2503
Zhang, H. M. 3208, 4763, 6312
Zhang, J. 555, 5589, 5660
Zhang, J. C. 775
Zhang, J. G. 2698
Zhang, J. H. 6910, 6915, 8174
Zhang, J. S. 6774
Zhang, J. X. 868
Zhang, J. Y. 8265
Zhang, K. 855, 5288, 6511, 7073
Zhang, L. 3516
Zhang, L. G. 8051
Zhang, L. H. 2154
Zhang, M. 4480
Zhang, M. I. N. 5999
Zhang, M. X. 3366
Zhang, M. Y. 7002
Zhang, M. Z. 204
Zhang, N. 652, 4788
Zhang, N. Y. 3028
Zhang, P. 5997
Zhang, Q. 2994
Zhang, S. L. 2591
Zhang, S. Z. 6533
Zhang, W. L. 2930
Zhang, W. Q. 3307
Zhang, X. 3381
Zhang, X. F. 6478
Zhang, X. H. 4918
Zhang, X. Z. 6319
Zhang, Y. C. 6513
Zhang, Y. H. 8186
Zhang, Y. K. 3359
Zhang, Y. Q. 3963
Zhang, Y. S. 4814
Zhang, Y. Z. 6304
Zhang, Z. L. 4930
Zhang, Z. P. 897
Zhang, Z. Q. 8266
Zhao, C. S. 1552
Zhao, F. J. 4568
Zhao, H. R. 6382
Zhao, J. R. 6433
Zhao, J. Y. 3748
Zhao, L. M. 5089
Zhao, L. Y. 3152
Zhao, R. H. 2836
Zhao, R. Y. 2698
Zhao, W. H. 2395, 6576
Zhao, Y. F. 2654
Zhao, Y. J. 2495, 3391, 3575, 7001
Zhao, Y. T. 1651, 5766
Zhao, Y. X. 1834
Zhao, Z. Q. 204
Zhao, Z. R. 1082
Zhao, Z. S. 1552
Zhargalsaikhan, D. 512
Zharmukhamedov, S. 8409
Zheleva, D. I. 5796
Zheltonozhskaya, L. V. 8702
Zhemela, G. P. 6260
Zheng, C. R. 888
Zheng, D. S. 3798
Zheng, H. S. 359, 359
Zheng, H. X. 4143
Zheng, H. Y. 870
Zheng, J. R. 870
Zheng, J. T. 868
Zheng, P. Y. 3312, 4145
Zheng, Q. Y. 6630
Zheng, S. L. 2160-2161
Zheng, Y. Z. 5746
Zhezher, A. Ya. 10
Zhirmunskaya, N. M. 4665
Zhivlyuk, Yu. N. 7168
Zhiznevskaya, G. Ya. 3493, 8344
Zhmurko, N. G. 3914
Zhong, G. F. 359
Zhong, G. R. 6567
Zhong, H. 1537, 3325, 5233-5234
Zhong, L. B. 6301
Zhorzhesko, G. G. 1132
Zhou, C. 8698
Zhou, D. X. 204, 4145
Zhou, G. Q. 919
Zhou, H. Y. 2996
Zhou, J. H. 6394
Zhou, Q. 5738
Zhou, W. J. 5639
Zhou, X. C. 444
Zhou, X. F. 1190
Zhou, X. N. 5756
Zhou, X. T. 3381
Zhou, Y. P. 5765, 6533
Zhou, Z. G. 3720, 4537
Zhou, Z. Q. 4285
Zhou, Z. X. 6576
Zhoung, H. X. 6394
Zhu, C. D. 870
Zhu, C. F. 5749
Zhu, C. J. 2688
Zhu, J. K. 6099, 7869
Zhu, K. Z. 1310
Zhu, L. C. 4735
Zhu, M. F. 5660
Zhu, M. Y. 4833
Zhu, P. L. 5633
Zhu, W. M. 8051
Zhu, X. D. 8213
Zhu, Y. H. 3724
Zhu, Y. J. 2688
Zhu, Y. M. 778
Zhu, Z. H. 359
Zhu, Z. L. 2591
Zhu, Z. W. 3359
Zhuang, B. C. 1634
Zhuang, H. 2185
Zhuk, O. I. 7199
Zhukov, S. N. 6725
Zhukov, Yu. P. 3146, 3809, 7062, 8006, 8555
Zhukova, L. A. 530
Zhukovskii, E. E. 7732
Zhuo, Z. 6041
Zhyamenas, A. 3185
Zia, M. S. 822, 5579
Zidan, I. 175
Zidgali, T. A. 2006
Ziegler, K. 3134
Zieschang, M. 6958
Ziętecka, M. 3029
Zihareva, M. V. 8705
Zilinskas, B. A. 1077
Ziliotto, U. 4295
Zimbabwe, Cotton Research Institute 6207
Zimbalatti, G. 1677
Zimdahl, R. L. 4196
Zimina, T. N. 3224
Zimmer, W. 4093
Zimmerlin, A. 2037-2038
Zimmermann, G. 1413, 1427
Zimniak-Przybylska, Z. 5798
Zinchenko, V. A. 4727
Zini, I. 1986
Zinselmeier, C. M. 174
Ziogas, D. 7957
Ziółek, W. 2281
Ziska, L. H. 2675, 3693
Zizka, J. 3274
Zlatanova, J. 8190
Żnierczyk, C. 2272
Złobecki, A. 2494
Zlotnikov, K. M. 4269
Zobel, A. M. 1922
Zobel, R. W. 3834
Zoborin, A. V. 5708
Zocchi, G. 4070
Zodape, S. T. 3716
Žofajová, A. 8031, 8089
Zoglauer, K. 4439
Zolotareva, B. N. 5355
Zonta, E. P. 4161
Zoschke, A. 882
Zoschke, M. 2416
Zottini, M. 8412, 8538
Zou, B. J. 6630
Zou, Q. 3963, 4769, 7533
Zou, S. H. 5753
Zowain, A. H. 8003
Zoz, N. N. 6002
Zrůst, J. 1781, 4455, 5169, 6852
Zubko, E. I. 8421
Zubkova, E. K. 6387
Zubkova, N. F. 1816, 6914, 8604
Zubkova, V. M. 5238
Zubritskiĭ, V. A. 5217
Zucchelli, G. 6442
Zuki, I. H. 3376
Zúñiga, G. E. 663
Zupančič, I. 4085
Zuppa, A. 7606
Zur, M. 8631
Zur Nieden, U. 5531
Zvereva, E. A. 6226
Zweden, J. van 7313
Zwedie, K. 7576
Zwedie, L. 1970
Zwinger, S. F. 931
Zyakun, A. M. 4269
Zyamenas, A. 8063
Zykov, B. I. 2725
Zyl, W. H. van 2305
Zyla, L. E. 7651
Żyromski, A. 2504, 2947

SUBJECT INDEX

Adzuki beans (*see Vigna angularis*)
Africa
agricultural meteorology 2408
cassava, books 2421
cotton, fertilizers 2319
green manures 3041
mechanization 2196
soil amendments 2377
sowing methods, direct sowing 2377
undersowing 2377
yield forecasting, agricultural meteorology 2407
Agricultural meteorology 2409, 4688
(*see also* Climate; Climatic change; Evapotranspiration; Precipitation; Solar radiation; Wind)
Africa 2408
analysis, techniques 568
barley, Morocco 968
Belgium 4707
books 2426, 4707
cereals 2747
conferences 2418
crop management 5365
Eleusine coracana 1598
Europe, books 599
France 4707
Germany 4707
groundnuts, Taiwan 7961
India, Maharashtra 6562
Irish Republic, books 3118
Luxembourg 4707
maize 568
Canada 7095
China 7095
Yunnan 4146
Europe 7095
India 7095
models 1535
Morocco 968
Taiwan 7961
USA 1535, 7095
models 1351, 4689
Netherlands 4707
oats 4707
peas 4707
rape 4707
reviews 1350
rice
Canada 7095
China 7095
Yunnan 4146
Europe 7095
India 7095
USA 7095
Russia 7732, 7962
soyabeans 3495
models 1535
Taiwan 7961
USA 1535
sugarbeet 4707
sunflowers 2987
temperature
India, Karnataka 3863
models 7963
UK, books 3118
wheat 4707
Canada 7095
China 7095
Europe 7095
India 7095
models 6335
Morocco 968
USA 7095
yield forecasting 2407
Agricultural research
Germany 8839
Nepal 7089
tropics 8839
Zanzibar, bibliographies 6220
Agriculture
arid regions, books 4705
Australia, books 591
dictionaries 4708
Agriculture *cont.*
ecology, books 4706, 8836
Hungary, books 5391
Agroforestry
Brassica juncea, India, Haryana 6978
Cajanus cajan 359-360
India, Andhra Pradesh 6792
cassava 515
Colombia 1951
cotton, India, Tamil Nadu 6133
Cyamopsis tetragonoloba 378
groundnuts
India
Andhra Pradesh 6792
Bihar 6690
Tamil Nadu 6133
India, Andaman and Nicobar Islands 7093
maize 127, 515, 1489, 2085, 5537
Colombia 1951
Costa Rica 8150
Gambia 6415
India, Tamil Nadu 6133
Malawi 8735
Pennisetum glaucum 6584
rice, Peru 8210
sesame, India, Tamil Nadu 6133
sorghum 378, 6584
India, Tamil Nadu 6133
South East Asia, books 1967
soyabeans 2085
India, Tamil Nadu 6133
sugarcane, Colombia 1951
sunflowers, India, Tamil Nadu 6133
Vigna mungo, India, Tamil Nadu 6133
Vigna radiata 378, 515
India, Tamil Nadu 6133
Vigna unguiculata, India, Tamil Nadu 6133
wheat 3119
China 1973
India
Bihar 6690
Haryana 6228
Indian Punjab 1972
Air pollution
acid fog, *Phaseolus lunatus* 4421
acid rain
groundnuts 5036, 7583
Japan 7943
rice 3846
sesame 3846
soyabeans 2190, 2789, 3846
books 594, 5390
carbon dioxide 6185
soyabeans 299
wheat 2514
coal dust, cereals 7494
dust
Cicer arietinum 2886
reviews 1937
ethylene, *Brassica juncea* 4585
fallout, wheat 3202
fluorine
barley 7288
maize 7288
fly ash, cereals 7494
heavy metals, books 7112
hydrofluoric acid, wheat 3201
hydrogen sulphide, wheat 3973
Italy 559
models 1439
nitrogen dioxide
Phaseolus vulgaris 5085, 7648
potatoes 8587
reviews 1337
sunflowers 5085
nitrogen oxides
Phaseolus vulgaris 5087
wheat 3201
ozone
Austria 7079
barley 121, 2394, 4839
cotton 5356
Air pollution *cont.*
ozone *cont.*
groundnuts 5356
Hibiscus cannabinus 441
Italy 559
maize 2394, 5356
peas 2213, 5352
Phaseolus vulgaris 348, 1076, 2244, 5086-5087, 7648-7649
protectants 1075, 1077
potatoes 2394
reviews 3845, 5352
soyabeans 299, 1654, 5356, 7550
models 7551
protectants 1075
sugarbeet 2394
Switzerland 5353
tobacco 559, 1259, 5356
wheat 2394, 4781, 4784, 5356, 8084
growth stages 4780
models 1439
radionuclides, wheat 3202
reviews 1337, 8797
sulfur, cereals 7494
sulphur dioxide
barley 78, 120, 559, 3536
Brassica campestris 2999
Cajanus cajan 6799
maize 1533
oats 3994
peas 1684, 3536, 4318, 5062, 6799
Phaseolus vulgaris 7648
protectants 1075
potatoes 5203, 8587
reviews 1337
rice 5668
soyabeans 559, 2790, 3497, 5012, 7552
protectants 1075
techniques 7082
Vicia faba 2846
Vigna radiata 5668
wheat 78, 3201, 3974, 6328
Albania
wheat
cultivars 2455
Triticum durum, cultivars 2455
Algeria
barley, cultivars 1466
wheat, cultivars 1401
Allelopathy
rye 6314
wheat 6314
Alley cropping
Cajanus cajan 6792
groundnuts 6690, 6792
maize 4062-4063, 6410, 6415, 7304, 7315
Pennisetum glaucum 2171-2172
rice 8210
wheat 6228, 6690
Amaranthus
chemical composition
amino acids 550
lysine 550
fertilizers
nitrogen, use efficiency 4607
phosphorus 4607
potassium 4607
production possibilities, Switzerland 7871
soil
nitrogen 4607
phosphorus 4607
potassium 4607
sowing date 6100
taxonomy 7874
Amaranthus caudatus
cells, vacuoles, pH 7011-7012
enzymes, phenylalanine ammonia-lyase 1262
growth regulators
benzyladenine 3783, 8131
cytokinins 4870, 8131
gibberellins 6101

***Amaranthus caudatus** cont.*
growth regulators *cont.*
growth inhibitors 3030
IAA 3783
kinetin 3783
NAA 3783
phosphonates 1262
intercropping, *Eleusine coracana* 3442
leaves, pH 7011
metabolic inhibitors, cycloheximide 6101
metabolism, betacyanins 1262, 6101
photosynthesis
carbon dioxide 7011-7012
carbon pathways 7011-7012
light intensity 7011-7012
seed characteristics 6102
seed germination
DIMBOA 4859
inhibitors 3030
temperature 6102
seedling emergence 6102
seedlings, composition, amino acids 6101
seeds
composition
amino acids 6105
proteins 6104-6105
sterols 3031
sowing depth 6102
tissue culture
growth regulators 3783
organogenesis 3783
Amaranthus cruentus
drought resistance 6947
fertilizers, nitrogen, use efficiency 4607
growth regulators
benzyladenine 3783, 7014
IAA 3783
kinetin 3783, 7014
NAA 3783
intercropping, sunflowers 6947
irrigation 3782
pests, *Lygus lineolaris* 7010
photorespiration
light intensity 6152
temperature 6152
photosynthesis
light intensity 6152
photosystem II 6152
temperature 6152
plant competition 6947
plant density 3782
seed characteristics 6102
seed germination, temperature 6102
seed production 3782
seedling emergence 6102
seeds
composition
amino acids 6105
proteins 6104-6105
sterols 3031
sowing depth 6102
sowing rates 3782
spacing 3782
tissue culture
growth regulators 3783, 7014
organogenesis 3783
water use efficiency 6947
yield components 5296
Amaranthus dubius
seed characteristics 6102
seed germination, temperature 6102
seedling emergence 6102
sowing depth 6102
Amaranthus hybridus
growth regulators
benzyladenine 3783
IAA 3783
kinetin 3783
NAA 3783
seeds, composition, sterols 3031
tissue culture
growth regulators 3783
organogenesis 3783
Amaranthus hypochondriacus
carbon dioxide enrichment 6184
enzymes
phosphotransferases 7872
ribulose-bisphosphate carboxylase 7872
gene expression, enzymes 7872
***Amaranthus hypochondriacus** cont.*
growth regulators
benzyladenine 3783
IAA 3783
kinetin 3783
NAA 3783
leaves
stomatal resistance 6184
water relations 6184
photosynthesis
carbon dioxide 6184
carbon pathways 7872
seed characteristics 6102
seed germination, temperature 6102
seedling emergence 6102
seeds
composition
amino acids 6105
proteins 6103-6105
saponins 7873
sterols 3031
sowing depth 6102
tissue culture
growth regulators 3783
organogenesis 3783
yield components 5296
Amaranthus hypochondriacus* × *Amaranthus hybridus, cultivars, Plainsman 7009
Amaranthus retroflexus
enzymes, ribulose-bisphosphate carboxylase 7013
light intensity 7013
photosynthesis 5336
light intensity 7013
respiration 5336
Amorphophallus campanulatus, shading 6887
Amorphophallus konjac
cultivars, Korea Republic 424
fertilizers
nitrogen 424
phosphorus 424
potassium 424
plant density 424
Amorphophallus rivieri
mulches, plastic film 4514
planting date 4514
seed corms
storage, temperature 4514
treatment, cutting 4514
Apparatus
gas exchange, measurement 3850
photosynthesis, gas exchange, measurement 6284, 6332, 7080, 7944
solar radiation, measurement 4677
Arachis hypogaea (*see* Groundnuts)
Argentina
sugarcane, cultivars 4623
wheat, production possibilities 63
Arracacia xanthorrhiza
fungicides
captan 4513
chlorothalonil 4513
thiabendazole 4513
thiram 4513
seed germination, seed treatment 4513
seed treatment
fungicides 4513
potassium nitrate 4513
sulphuric acid 4513
Asia, green manures 3041
Australia
agriculture, books 591
cereals, books 3110
climate, mediterranean climate 6196
crops, books 8825
farming systems 6196
Hibiscus cannabinus, production possibilities 3725, 3727, 7778
Lupinus, crop husbandry 7680
New South Wales
farming systems 6194
soil conservation 6194
sorghum, cultivars 6602
soyabeans, cultivars 5728
triticale, cultivars 1456
wheat, cultivars 1456, 4719
Northern Territory
Cajanus cajan, cultivars 7899
Australia *cont.*
Northern Territory *cont.*
Cyamopsis tetragonoloba, cultivars 7899
Hibiscus cannabinus
cultivars 6045
precipitation 6046
sesame, cultivars 7791-7792, 7899
pest control, books 7109
potatoes, cultivars 7721
Queensland
sorghum
crop husbandry 6579
cultivars 6591
reports
Bureau of Sugar Experiment Stations 3865
Department of Agriculture and Rural Affairs 7968
Department of Primary Industry and Fisheries 4690
Department of Primary Industry and Fisheries, Northern Territory 3866
Institute for Sustainable Agriculture 583
Northern Territory Department of Primary Industry and Fisheries, Horticulture Branch 1952
sorghum, research 6581
South Australia
farming systems 6194
soil conservation 6194
wheat, cultivars 3917
Victoria
farming systems 6194
soil conservation 6194
Western Australia
Lupinus angustifolius, crop husbandry 6126
rape, crop husbandry 6126
waterlogging 7938
wheat
crop husbandry 6126
cultivars 4718, 8033
wheat
crop husbandry, computer software 3209
yield forecasting 5476
Austria
air pollution, ozone 7079
barley, cultivars 5709-5710
fodder beet, cultivars 5966
Linum usitatissimum, cultivars 7845
maize, cultivars 5709-5710
potatoes, cultivars 5966
rye, cultivars 5709-5710
Sinapis alba, cultivars 7845
soyabeans, cultivars 7517
sunflowers, cultivars 452
triticale, cultivars 5709-5710
Vicia faba, cultivars 2840
wheat
cultivars 5709-5710
Triticum spelta, cultivars 5709-5710
Avena (*see* Oats)
Bambara groundnuts (*see Vigna subterranea*)
Bangladesh
Brassica campestris, cultivars 1231
cotton, cultivars 1184
fertilizers, sulphur 854
plant nutrition, sulphur 854
rape, cultivars 1231
rice, cultivars 217
Barley
agricultural meteorology
Irish Republic 3118
Italy 599
Morocco 968
UK 3118
air pollution
fluorine 7288
ozone 121, 2394, 4839
sulphur dioxide 78, 120, 559, 3536
allelopathy 1333, 8132
Pennisetum glaucum 3076
Sasa cernua 3167
sorghum 5345
altitude 1486, 4204
cultivars 6366

Barley *cont.*
anoxia 8311
antibiotics, blasticidin S 2564
apical meristems, development, temperature, heat sums 114
carbon dioxide 6387
carbon dioxide enrichment 1938, 3243
catch crops
Lolium perenne 6357
Trifolium pratense 6357
cell culture
growth regulators 746
protoplasts 746, 4030
regeneration 6402
cell cultures
metabolism, callose 4020
mineral nutrition 6154
somatic embryogenesis 4833
cell membranes
electric potential 2554
enzymes 6385
plasma membranes 4832
enzymes 741, 1681, 4023
permeability 7281
tonoplast
electric potential 1475
ion transport 1475
uptake, nitrogen 2554
cell walls
composition
polysaccharides 2063
proteins 3827
enzymes 2558
growth 3827
metabolism 2558
physical properties 2063
cells
mitochondria
composition, heat shock proteins 1482
enzymes 3454
pH 745
photosynthesis 4832
salinity 8080
vacuoles, pH 7011
chemical composition
amino acids 550
boron 6162
cadmium 2391
calcium 4010, 6161
carbohydrates 269
chlorophyll 269, 1472, 6400
copper 2391, 6162
elements 4206
iron 6157, 6162
lead 2391
magnesium 4010, 6161
manganese 6162
molybdenum 6162
nitrogen 720, 733, 750, 3045, 4010, 6161
organic acids 8786
phenolic compounds 7076
phosphorus 720, 4010, 6161
pigments 2397, 6400
potassium 4010, 6161
proteins 269, 322, 4199, 4822
sodium 6161
sugars 4205
trace elements 4206
zinc 2391, 6162
chlorophyll, fluorescence 2076, 3261
chloroplasts
composition, heat shock proteins 1482, 5524
development 3244, 7276, 7284
enzymes 52, 3454, 7276
light 3244
membranes
electrical properties 3253
growth regulators 3253
metabolism
amino acids 7276
chlorophyll 8127
fatty acids 7276
heat shock proteins 5524
nitrogen 5342
senescence 8127
thylakoids 7284
proteins 5514
ultrastructure 7284

Barley *cont.*
climate 8798
Australia, Western Australia 6125
climatic change
India 1938
models 1940
cold hardening
growth regulators 3195
metabolic inhibitors 3195
cold resistance 4835
cultivars 1484, 6366
growth regulators 1927
coleoptiles, growth 901
companion crops 5513
continuous cropping 2, 5493, 8299
cover crops 384, 517-518
Anthyllis vulneraria 2535
Lotus corniculatus 2535
Medicago sativa 2535
Onobrychis viciifolia 2535
Trifolium pratense 2535
Trifolium repens 1458
crop management
computer software, expert systems 4841
expert systems, Netherlands 1295
crop residues 2537
cryoprotectants, dimethyl sulfoxide 1395
cultivars
Algeria 1466
Austria 5709-5710
Canada, Alberta 4827
Czechoslovakia 736, 1468
Denmark 8758
Germany 3231, 7158
identification 5533
techniques 6408-6409
reviews 7290
India 2544
Rajasthan 5507
Iran 3234
Italy 735, 961, 3919, 6631, 7263-7268, 8026, 8120-8121
Japan 7260
mixtures 6367
Nepal 5511-5512
Netherlands 7261-7262
Poland 724, 6366-6367, 6404
Portugal 735
Romania 3233
Spain 735, 4011
USA
Alabama 4968, 8303
Alaska 108
Montana 77
Nebraska 108
Ohio 5335
AC Burman 2549
Aidas 6375
Anni 3237
Ashton 1470
Baraka 6373
Bios-1 3238
Bridge 2547, 6369
Cask 1470
Clemson-100 6368
Crest 6365
CT16 1469
Elo 3237
Express 963, 6632
Franklin 4817
Gil 3236
Granal 2937
Labelle 2548
Michka 6372
Nishinochikara 2545
Onslow 4818
Orenburgskii-11 3239
Orlik 4013
Preriya 6374
Risk 3238
Skiff 4819
Teele 3237
Tidewater 4012
Veras 6371
Vybor 3238
Weskan 6370
Yerong 4820
Zernogradskii-385 2546
cultivation 4024
chiselling 3226, 3841, 7904

Barley *cont.*
cultivation *cont.*
conservation tillage 1336, 1934
deep tillage 3042
depth 3888, 6358, 7481
residual effects 97
discing 3808, 7904
harrowing 7904
interrow cultivation 4720
methods 6347
minimum tillage 98, 720-722, 1602, 3226-3227, 3888, 5536, 6356, 6358, 8299
residual effects 97
no-tillage 720-722, 730, 1934, 2537, 3042, 3124, 5536, 6360
ploughing 721-722, 3124, 3227, 3808, 7904
ridging 1602
rotary cultivation 2537
straw incorporation 6356, 8299
cutting date 3449
desiccants, potassium iodide 739
disease control 4639, 7249
cultural control 957
diseases
Cochliobolus sativus 4015
Erysiphe graminis 3452
Gaeumannomyces graminis 1457, 5513, 6633
Pseudocercosporella herpotrichoides 5513
Puccinia hordei 3241
Pyrenophora graminea 3242
Pyrenophora teres 737
Rhizoctonia solani 6379
Rhynchosporium secalis 3241, 4023, 6380
drainage 8807
drought 3259, 6404, 8140, 8310
drought resistance 6405
cultivars 4011
dry matter accumulation 733
cultivars 736
dry matter distribution
cultivars 736
growth regulators 5502
enzymes
acid phosphatase 2562, 4017
adenosinetriphosphatase 52, 741, 1681, 3249-3250, 3454, 4023
alanine aminotransferase 742
aminotransferases 1487
amylases 2565-2567, 3385, 4825, 5530, 6393, 6396, 6398, 8139, 8311
aspartate aminotransferase 5525
catalase 2081, 3259, 4017, 8140
esterases 5527
β-fructofuranosidase 5448, 5528-5529
glucosidases 2565
glutamate-ammonia ligase 4814, 5518, 7925
glutamate synthase 5518
glycosidases 7278
hydro-lyases 7276
hydrolases 743, 1483, 2558, 4026, 4824, 7069, 7279, 8139
isomerases 7276
ligases 2559
malate dehydrogenase 4017, 5525
mannosidases 2563
nitrate reductase 266, 1477-1478, 2562, 3172, 4019, 4814, 6048, 7277, 7925, 8123
nitrite reductase 2561, 7925
nitrogenase 2745
oxidoreductases 1487, 1923, 2550, 3259, 3826, 6385, 6397, 7276, 7292, 8140
oxygenases 112, 8135
peptide hydrolases 113, 4826
peroxidases 2081, 2560, 3259, 4017, 6399, 8140
phenylalanine ammonia-lyase 4929
phosphoric monoester hydrolases 6392
phosphotransferases 116, 4022, 7276, 8130
ribulose-bisphosphate carboxylase 4657, 6166, 8446

Barley *cont.*
enzymes *cont.*
superoxide dismutase 2081, 3259, 8140
transferases 5448, 5529
equipment, seed drills 8114
etioplasts
metabolism 2557
translocation 2557
evapotranspiration 5499, 7252
estimation 1930-1931
fertilizers 747, 3229, 6139
boron 1606
calcium 1395
cattle manure 6364
cattle slurry
application date 36
use efficiency 36
composts 4639, 6363
copper
application date 3232
foliar application 3232
farmyard manure 2, 554, 1300, 1311, 1758, 3052, 3226, 3451, 3809, 4639, 4814, 6143, 6363, 7487, 8807
residual effects 5328
magnesium 1395
manganese 1395
foliar application 2075, 3148
requirements 3148
molybdenum 1395
nitrogen 2, 99, 102, 105, 526, 719-722, 724, 729, 732-733, 1457, 1462-1463, 1465, 1484, 1604-1605, 1758, 2072, 2074, 2178, 2533, 2540, 2735, 2902, 3042, 3124, 3231, 3809, 4010, 4720, 4815, 5328, 5496-5497, 5500, 5503, 5505, 5507-5509, 5517, 5534, 6161-6162, 6226, 6256, 6347, 6356, 7136, 7158, 7249, 7256, 7264, 7280, 7481, 7487, 8116, 8119, 8755
application date 103, 1467, 2541, 3230, 4008, 4811, 5504, 6361, 7257
application methods 730, 2541, 3230, 3813, 5494, 6360, 7248
foliar application 103
models 105, 1386
requirements 728, 2380, 4009
models 8756
residual effects 2536, 2841
sources 103-104, 3230, 4811, 5504, 6362
use efficiency 727, 1461, 4811, 7255, 7483
NPK fertilizers 530, 554, 960, 1300, 1438, 2728, 3052, 3226, 3450-3451, 4639, 4810, 4816, 5708, 6143, 6363, 8807
application methods 106
use efficiency 7062
organic fertilizers 5332, 7487
phosphorus 99, 105, 732, 1465, 1484, 1758, 2533, 3042, 3124, 3809, 4010, 4720, 4815, 5328, 5330-5331, 5509, 6347
application date 1464
application methods 2074, 3813, 4813, 6360
models 105
requirements 3810, 4009
models 8756
residual effects 2542
sources 2542, 4812, 5329, 6362
pig slurry 733, 6364
application date 36
use efficiency 36
potassium 528, 1758, 2074, 3809, 4010, 4814, 5328, 5330-5331, 6347, 8755
application methods 6360
sources 6362
poultry manure 6256
refuse compost 3059
residues 6256
sewage sludge 530, 1936, 2511, 2543
slurries 2735, 7487

Barley *cont.*
fertilizers *cont.*
slurries *cont.*
application date 731
straw 2735, 3226, 3451, 4816, 6143, 7487
sulphur 107, 1395, 3124
application methods 6360
trace elements 3814
zeolites 2378
field experimentation, border effects 3092
frost injury 4205
frost resistance 4205, 4835, 7940
cultivars 1484
fungicides 3809
benomyl 1395, 2739
bitertanol 6381
captafol 1457
captan 1459
carbendazim 1457, 4008
carboxin 1459, 7247
cyproconazole 6380
diniconazole 6379
fenbuconazole 6379
fenpropidine 6380
fenpropimorph 6380
flusilazole 6380
flutriafol 6379
fuberidazole 1457
hexachlorobenzene 1395
maneb 1457
metalaxyl 1459
prochloraz 1457, 4008, 6380
propiconazole 1459, 2739, 4008, 4815, 6380
quintozene 1459
SN-539865 6379
tebuconazole 6379-6380
thiram 7247
tolclofos-methyl 1459
triadimefon 1457, 2538, 2739
triadimenol 1457, 1459, 6380-6381
tridemorph 1457, 6380
gene expression
enzymes 4026
growth regulators 4026
salinity 7926
grain
accumulation, nitrogen 123, 3230
aleurone cells
enzymes 6393
growth regulators 5532
composition
amino acids 2, 4830
boron 2739
cadmium 1936, 2391, 2740, 6635
caesium 2511
carbohydrates 3245, 4007, 4830
chromium 1936
copper 1936, 2391, 2739, 3232
cultivars 2569
β-glucan 2569
glucans 8139
lead 1936, 2391, 2739-2740, 6635
lipids 2568
manganese 2075, 2739
nickel 1936
nitrogen 2, 104, 733, 1463-1464, 2902, 3232, 3256, 4007, 7249
oils 4830
organic acids 8786
phosphorus 1464
polysaccharides 2568
proteins 77, 526, 1464-1465, 1468, 2540, 2568-2569, 4200, 4830-4831, 5500, 6356, 6363, 7260, 7262
starch 100, 2568, 6363, 7282
sugars 100
vitamins 4830
zinc 1936, 2391, 2739, 6635
development 2568
endosperm, enzymes 6393
enzymes 2565, 7278-7279, 8139
filling 2568, 7270, 7282
diseases 3245
duration 739
temperature 100

Barley *cont.*
grain *cont.*
metabolism
DNA 8129
lipids 2568
polysaccharides 2568
proteins 2565, 2568
starch 2565, 2568
moisture content, environment 5460
quality 2021, 4830, 6356, 7268
cultivars 7260-7261
malting quality 4007, 5496, 8139
cultivars 7159
Netherlands 7291
size 6356
translocation, nitrogen 123
weight 739, 1468
grain drying, temperature 7254
green manures 6143, 7487
Lolium multiflorum 7258
rape 2735
Sinapis alba 4816
Trifolium repens 1458
growth 4024, 4828
dynamics 3252
models 2738
temperature 269
growth period, cultivars 3231
growth rate, cultivars 3231
growth regulators 1467
abscisic acid 745, 1417, 1696, 2048, 2570, 2572, 3249, 3253, 4025, 4825, 6393, 6396, 6399, 7281, 8126, 8134
ACC 4829, 8136
adenosine 6174
benzyladenine 116, 746, 3195, 3260, 6397, 8131
calcium 5530
chlormequat 1395, 1457, 3228, 5501-5502
cimectacarb 8135
cytokinins 1476, 8131, 8732
2,4-D 746, 1395, 6401
dimethyl sulfoxide 6394
ethamon 4665
ethephon 726, 2540, 2739, 4829, 5500-5502, 7257, 7264, 8136
ethylene 3246, 3455, 4829, 8136
forchlorfenuron 8732
gibberellins 2079, 2565-2567, 3254-3255, 3385, 4026, 4825, 5532, 6393, 6398, 8133-8135, 8181, 8311
growth inhibitors 745, 3809
IAA 746, 4026
jasmonic acid 4025, 5531
kinetin 115, 1479, 2079, 8141
MACC 8136
mepiquat 3228
monoethanolamine 102
phaseic acid 2570
phenolic compounds 8132
seaweed products 1927
thidiazuron 6397
triacontanol 2079, 6174
zeatin, binding proteins 4199
zeatin riboside 1476
growth stages 6395, 7491
classification 268
harvest index 1457
harvesting, methods 8118
harvesting date 749, 8118
harvesting losses 7253
heat resistance 1434
heat stress 8139
herbicides 3809
acifluorfen 2550, 5526
bromoxynil 3240
chlorsulfuron 6376-6377
2,4-D 2739, 5513, 6381
damage 6376-6377
dicamba 2739, 5513
diclofop 6378
diflufenican 2559
diphenyl ethers 2550
diuron 4821
ethofumesate 7593
fenchlorazole 6378
fenoxaprop 6378
fluroxypyr 3166

Barley *cont.*
herbicides *cont.*
MCPA 3166, 5513
mecoprop 3166
phosphoric acid esters 6391
sethoxydim 2553
simazine 4821
sulfometuron 4821
tolerance 6376-6378
toxicity 2768, 4821, 4989, 6378
insecticides
cypermethrin 1457
DDT 566
methyl bromide 6625
pentachlorophenol 6381
intercropping
cotton 4515
grasses 5498
Lens culinaris 5126
Medicago sativa 2375
oats 702, 719, 957
peas 2375, 3042, 3045
irradiation
gamma radiation 122, 2081
ultraviolet radiation 122, 2397, 4839
irrigation 102, 4007, 5497-5500, 7249, 7252, 7287, 8125
land use 573
leaf area index 7251
herbicides 6376
leaf water potential, salinity 3261
leaves
accumulation
calcium 1474
chlorine 1474
nitrogen 1474
phosphorus 1474
potassium 1474
proline 1417, 2048
sulphur 1474
canopy
cycling, ammonia 5517
reflectance 2083
growth stages 2082
stomatal resistance 8148
composition
amino acids 110
calcium 4823
carbohydrates 4027
carotenoids 3261
chloride 4823
chlorophyll 115, 738, 7283
copper 6399
elements 5344
fructans 8306
heat shock proteins 5524
iron 6399
manganese 6399
nitrogen 3256, 7272
phosphorus 4823, 7272
potassium 4823, 6399
proline 3243
proteins 115, 117, 122, 4025
sodium 4823
starch 4027
sucrose 4027
zinc 6399
enzymes 113, 1923, 2561, 2563, 3826, 5518, 5528-5529, 6392, 6397, 6399, 7277, 8130
epidermis 1474
protoplasts 1483
flag leaf, translocation, sucrose 2079
gene expression, proteins 4025
greening 2551, 6385, 7269
growth 8138
growth regulators 115, 4025, 6397, 6399
ion transport, phosphorus 5516
light 7277
mesophyll 1474
metabolism
carotenoids 3261
chlorophyll 115, 748, 7269, 8307
enzymes 2561
fatty acids 7593
fructans 5529, 8306
heat shock proteins 5524
inositol phosphates 6392
nitrogen 7925
proline 1417

Barley *cont.*
leaves *cont.*
metabolism *cont.*
proteins 115, 122
sugars 5529
number 4828, 6395
pH 7011
phloem 110
respiration 6397
senescence 115, 1479, 6397, 6715, 7272
growth regulators 5531
stomatal movement 2572
temperature 4828
uptake
fungicides 6381
herbicides 6381
insecticides 6381
volatilization, ammonia 5518
water relations 4840
water stress 4025
weight 4027
light 747, 2048, 2561, 8446
blue light 738
far red light 8138
interception 7248
red light 738
use efficiency 1438
light intensity 738
lodging 2539, 3449, 7262
growth regulators 726, 5500
models 2571
maturity stage 749
metabolic inhibitors
cycloheximide 3195
dactinomycin 3195
metabolic regulators, calcium 4825, 5530, 8134
metabolism
amino acids 6387, 7276, 7940
chlorophyll 748, 4021, 6388-6391, 7273-7275, 8127, 8307
ethylene 4829, 8136
fatty acids 112, 7276, 7593
growth regulators 1696, 8133, 8135
herbicides 3240
lipids 2559
molybdenum 3172
mugineic acid 8308
nitrogen 7925
organic acids 6387
potassium 3062
proline 1417, 3243, 7940
proteins 1479, 1925, 4199, 6388-6389
starch 2557
sugars 4205
mineral nutrition
aluminium 3064, 5519
toxicity, cultivars 3934, 6406
arsenic 4838
boron, toxicity, models 7289
cadmium, toxicity 122
calcium 8125, 8143
chloride 2180
cobalt 3246
computer software 7947
copper 3246
fluorine, toxicity 7288
iron 8125
deficiency, reviews 4972
sources 6154
lead, toxicity 122
magnesium 4838, 8125
manganese 8125
deficiency 4017
models 7947
nickel, toxicity 122
nitrogen 266, 322, 727, 1476, 3045, 3172, 3247, 3294, 4018-4019, 5517-5518, 6048, 6161-6162, 7272, 8123, 8125
deficiency 8124, 8129
techniques 123
toxicity 4814
phosphorus 3247, 7272, 8125
deficiency 5516, 8124
potassium 741, 3062, 3247, 4823, 6048, 8125
deficiency 3248
silver 3246
sodium 8125

Barley *cont.*
mineral nutrition *cont.*
sulphur 2077
deficiency 8124
zinc 2556
deficiency 965, 5520-5521
mineral uptake
ammonium 5519
cadmium 7489
caesium 6139
calcium 750, 2555, 5519, 5521, 8125
cations 5523
chloride 5521
copper 750, 5521
iron 107, 750, 5521, 8125
magnesium 750, 2555, 8125
manganese 107, 2555, 3935, 5521, 8125
nitrates 2554
nitrogen 103, 266, 322, 538, 721-722, 727, 733, 740, 960, 1311, 1461, 1477-1478, 2072, 2178, 2552, 2554-2555, 2735, 2902, 3045, 4016, 4018, 5494, 5505-5506, 5510, 5519, 6256, 6347, 7258, 7346, 7483, 8123-8125
sources 104
phosphorus 107, 750, 2080, 2542, 2555, 3247, 4018, 4836-4837, 5510, 5516, 5519, 5522, 6347, 8124-8125
potassium 2555, 3062, 5515, 5519, 5521, 6347, 8125, 8146, 8755
promethium 3844
radionuclides 6139
sodium 4836, 5521, 8125, 8143
strontium 6139
sulphur 8124
zinc 107, 5520
morphology, cultivars 4029
multiple cropping
buckwheat 1907
cotton 4515
maize 1907
Pennisetum glaucum 1907
rape 1907
sorghum 1907
soyabeans 1907
turnips 1907
nematicides, aldicarb 4014
nitrification inhibitors 731, 6362
nitrogen fixation 2745, 6407
pest control 7249
cultural control 4014
nematicides 4014
pests
Heterodera avenae 8304
Heterodera zeae 8041
Meloidogyne incognita 8041
Merlinius 4014
plant parasitic nematodes 4014
Pratylenchus penetrans 4014
Tylenchorhynchus dubius 4014
phenology 4828
photoperiod 748
photosynthesis 7277
carbon dioxide 7011, 8446
carbon pathways 7011
electron transfer 1917, 6382
enzymes 8446
gas exchange 738
inhibitors 2768
isotope fractionation 5344
light 2076, 8446
light harvesting complexes 532, 1472, 3244, 4822, 5514, 6386, 7920
light intensity 7011
mineral nutrition 4017, 4814
models 1917
photoinhibition 2076
photosystem I 1471, 2551, 4822, 6383-6384, 7920
photosystem II 115, 1473, 1917, 2076, 2551, 2768, 3261, 5514, 6386, 6715, 7920
salinity 3261
water stress 109, 3243
plant competition
legumes 8144
rape 1236
weeds 3164, 4196

Barley *cont.*
plant density 2073, 2538, 4027, 6359
plant height, cultivars 7259
plastids, metabolism, porphyrins 5526
Poland 1905
pollution
arsenic 4838
cadmium 122, 750, 5355
caesium 2511, 7078
chromium 530
copper 5355
heavy metals 1936, 6635
iodine 2395
lead 122, 750, 5355
nickel 122
nitrogen dioxide 2572
promethium 3844
radionuclides 3844, 5354, 7078
sulphur dioxide 2572
zinc 750
precipitation 105, 554, 749, 1488, 4032, 6377, 8072, 8145
interception 4202
protoplasts 4030
composition
copper 6399
iron 6399
manganese 6399
potassium 6399
zinc 6399
enzymes 1483, 6399
growth regulators 6399, 7281
isolation 1483
metabolism
nucleotides 8128
proteins 1483
regeneration 118
reclamation 1609
relay cropping, soyabeans 2534
remote sensing 2083, 5714
growth stages 2082
respiration 4019, 6387
mineral nutrition 4814
root exudates 965
elements 5521
siderophores 6154
root shoot ratio
cultivars 4827
growth stages 4827
rooting depth 7280
roots
anaerobiosis 5525
biomass 3042
cell membranes
electric potential 4018
ion transport 3248
composition, nitrogen 8123
development 7280
distribution 4034, 4837
soil compaction 6181
electric potential 2554
enzymes 741-742, 1477-1478, 2561, 3249-3250, 5525, 5527, 6048, 8123
growth 1476, 2080, 3227, 3246-3247, 3294
bacteria, rhizosphere 5493
irrigation 7252
soil compaction 3084, 4033
growth regulators 1476
ion transport 2552, 5515
nitrates 1475
length 722, 4837
metabolism
enzymes 2561
organic acids 5525
proteins 3248
mitochondria, respiration 8122
pH 8143
respiration 4019, 8122
salinity 3249, 8143
size 3084
rotations 263, 510, 1933, 4639, 8299, 8304, 8798, 8807
cereals 2728, 4816
fallow 512, 1457, 2533, 2841, 7117
fodder beet 2728
fodder crops 4816
grasses 2536, 2728, 4816, 5498, 7117
legumes 2728, 7117
Lens culinaris 2902

Barley *cont.*
rotations *cont.*
Linum usitatissimum 8112
Lotus corniculatus 2536
Lupinus albus 7988, 8113
Lupinus angustifolius 2072, 8113
Lupinus luteus 8113
maize 97, 2178, 2841, 3808, 6358
Medicago sativa 2, 2536
models 7245
oats 1457, 7988, 8112-8113
peas 2902, 7988, 8113
potatoes 2728, 7062, 8112
rape 2072
rice 4891
soyabeans 4891, 7245
sugarbeet 97, 6356
sunflowers 3808
Trifolium 5498
Trifolium hybridum 2536
Vicia 7988, 8113
Vicia faba 2, 97, 2841, 2902, 7988, 8112-8113
Vicia sativa 2533, 8112
wheat 2, 97, 2072, 2178, 3124, 3808, 7062, 7117, 8112
salinity 119, 1332, 1485, 3082, 3249, 3261, 4206, 4823, 4835, 7926, 8080, 8141, 8143
cultivars 4836
models 7289
salt tolerance 1485, 4835
cultivars 3260, 5535, 8142
models 8142
seed certification 7247
seed cleaners 85
seed development 2568
metabolism 8126
reviews 967
seed dormancy 4970, 7246-7247, 7292
growth regulators 5532
storage 4971
temperature 4971
seed germination 1610, 3251, 4760, 4975
allelopathy 1333, 3076, 5345
anoxia 8311
antibiotics 2564
enzymes 2565, 3385, 4824, 4826, 4929
growth regulators 2565, 3385, 8141
insecticides 566
metabolism 2565
growth regulators 8133
nucleic acids 8126
proteins 8126
mycotoxins 2737
salinity 1485, 8141
seed treatment 6394, 6625, 7246-7247
sewage sludge 2543
storage 972, 3856
temperature 4971
seed injury 85
seed inoculation
Azospirillum brasilense 2745
Azospirillum lipoferum 2745
seed maturation 3256
seed morphology 3251
seed production 85
Russia, Siberia 265
seed quality 265, 607, 3047, 4760
seed size 971
seed testing 971, 1610, 4975
seed treatment
accelerated aging 3856
dimethyl sulfoxide 6394
fungicides 1457, 1459, 7247
insecticides 6625
irradiation 2081
gamma radiation 122
infrared radiation, models 80
ultraviolet radiation 122
lasers 723
soaking 607
temperature 6394, 7246
seed weight 971, 3047
seedbed preparation 8114
seedling emergence 85, 3813, 4760
salinity 1485
seedlings
allelopathy 8132

Barley *cont.*
seedlings *cont.*
damage 2081
greening 6388
growth 8132
allelopathy 3076
growth regulators 8132
metabolism
chlorophyll 7273-7275
ethylene 3455
seeds
aleurone cells
enzymes 2567, 4825, 5530, 6398
growth regulators 2567, 4825, 5530, 5532, 6398, 8134
metabolic regulators 4825, 8134
metabolism, enzymes 4825
anoxia 8311
composition
calcium 8134
cultivars 2569
elements 1327
β-glucan 2569
lipids 2568
nitrogen 733, 2902, 3256
polysaccharides 2568
proteins 1465, 1468, 2568-2569, 4028, 4831, 5533, 6356, 6363, 6408
starch 2568, 6363
trypsin inhibitors 4028
embryos
composition
growth regulators 2570
proteins 2570, 3257
enzymes 743
metabolism, growth regulators 3255
endosperm
composition, proteins 8066
development 1481
differentiation, reviews 967
enzymes 4022, 5530
growth regulators 5530
enzymes 743, 2565-2566, 6396, 7069, 7278-7279, 7292, 8311
filling 2568
growth regulators 2566, 8181, 8311
imbibition
enzymes 743
anoxia 2081
oxygen 2081
irradiation, gamma radiation 4760
mechanical properties 2741
metabolism
glutathione 7292
lipids 2568
polysaccharides 2568
proteins 2565, 2568
reviews 111
starch 2565, 2568
moisture content 2741
environment 5460
quality 6356
respiration 6394
size 6356
storage 4971, 7292
containers 972, 3856
temperature 972
temperature 6394
viability 7254
storage 3856
vigour 4760
weight 1468
shading 1467, 7270-7272
shelterbelts 6180
shoots, growth, bacteria, rhizosphere 5493
sloping land 7483
soil
calcium 2555
erosion, models 8083
humus 8795
magnesium 2555
manganese 2555, 3935
nitrogen 728, 1462-1463, 2555, 4815, 5506, 5509
models 1386
organic matter 1311, 1933
phosphorus 1464, 2542, 2555, 4815, 5330-5331, 5509, 6182

Barley *cont.*
soil *cont.*
potassium 1300, 2555, 5330-5331, 8146
saline soil, leaching 107
zinc 2556
soil amendments 2537
dolomite 3060, 3229
factory effluents 7917
food wastes 734
lime 530, 1758, 3060, 5334, 5510
residual effects 3450
peat 107
zeolites 2736
soil compaction 1336, 1609, 1934, 3084, 3200, 3841, 4032, 4837, 5536, 6181, 8145
water uptake 4033
water use 4033
soil conservation 8299
soil density 7904
soil fertility 1486, 1609, 8795
soil pH 5330, 6157, 6406
soil properties 3042, 4834
soil temperature 6360
soil texture 1463
soil types 77, 750, 1438, 1486, 2178, 6125, 6127, 6182
soil water 1332, 4834, 7904, 8116, 8807
soil water content 104, 554, 6403, 8299
solar radiation 747, 1488, 4032
Poland 4204
sowing date 100-101, 724, 3241, 4900, 5496, 7249-7250
sowing methods 725, 7260, 8114
sowing rates 99, 101, 702, 724, 1457, 1460, 1484, 2073, 2539, 3164, 3231, 4810, 5495, 5503, 7262, 7280, 7481, 7488, 8115-8117, 8119
spacing 2538, 5494, 6359, 7248, 7251, 8115, 8117
spikelets
initiation 744
number 744
spikes
composition
nitrogen 7272
phosphorus 7272
development
cultivars 6395
fertilizers 5534
temperature 5534, 6395
heat sums 114
growth regulators 8181
removal 7270-7271
translocation, nitrogen 123
statistical analysis 8142
stems, metabolism, carbohydrates 7271
straw
composition
nitrates 1758
potassium 5535
proteins 5500
sodium 5535
removal 730
taxonomy 751, 1487, 3262
temperature 269, 1434, 4032, 5534, 6377, 8139
heat sums 114, 749, 4204, 4828, 6395
tillering 8138
growth regulators 4829, 5501
tissue culture
chromosome aberrations 7286
embryo culture 3254, 6401, 8137
embryos 2570
growth regulators 3254, 6401
light 6401
regeneration 7286
regenerative ability 3258
somatic embryogenesis 7285
topography, slope 7483
tramlining 4810
translocation 750
amino acids 110
cadmium 2391
carbohydrates 3245
copper 2391
growth regulators 1476
herbicides 2553
lead 2391

Barley *cont.*
translocation *cont.*
nitrates 1478
nitrogen 123, 4016, 5517-5518, 6048, 7272
phosphorus 7272
photosynthates 4031
source sink relations 739, 4016, 4031, 7270-7272
sucrose 2079
sulphates 3536
sulphur 2077
zinc 2391
transpiration 3071, 5344
undersowing
grasses 8144
legumes 8144
Medicago sativa 2375
vernalization 3254
volunteer plants 2333
water relations, models 1480
water stress 109, 2080, 3243, 3247, 3259, 4025, 4031, 7272, 8139
cultivars 736, 6403-6404, 7287
growth stages 4007, 6405
water table 1332, 2078
water use 1931, 3071, 3082, 5497, 7248, 8299
models 2078
water use efficiency 2533, 3071, 3082, 5497, 5499, 5708, 7248
waterlogging 3259, 8140
weed control
cultivation 4720
cultural control 6357, 7988, 8113
herbicides 3166
weeds, *Elymus repens* 6357
wind 2571
winter hardiness 7940
winter kill 1468
yield components 108, 1609, 2073, 4828, 5504, 6358, 7287, 7488
fertilizers 5503
growth regulators 3228, 3254
sowing rates 5503
vernalization 3254
yield correlations 1467, 7488, 8147
plant height 7259
yield forecasting 8072
yield losses, diseases, models 3241
yields
economics 1605
estimation, models 1488
models 4834
seasonal variation 7213
Belarus
cereals, seed production 1384
Lupinus angustifolius, cultivars 4401
oats, cultivars 3214
Belgium
agricultural meteorology 4707
maize, cultivars 8162
peas, cultivars 7969, 8402-8403
reports
Nationaal Centrum voor Grasland- en Groenvoederonderzoek 5366-5367
Provinciaal Onderzoek- en Voorlichtingscentrum voor Land- en Tuinbouw, Beitem-Roeselare 7969
sugarbeet, cultivars 4431, 5927, 7701
Beniseed (*see* Sesame)
Beta vulgaris (*see* Fodder beet)
Beta vulgaris* var. *saccharifera (*see* Sugarbeet)
Bhutan
buckwheat, cropping systems 7006
farming systems, shifting cultivation 7006
Bibliographies
legumes, South East Asia 8822
photosynthesis 1316, 7923
potatoes
India 5212
Poland 1811, 5211
Biochemistry
carbohydrates, books 596
carotenoids, books 8831
Biomass production, reviews 7967
Biophysics, books 3116

Black gram (*see Vigna mungo*)
Bolivia, fertilizers, phosphorus 4651
Books
agricultural meteorology 2426, 4707
Europe 599
Irish Republic 3118
UK 3118
agriculture
arid regions 4705
Australia 591
ecology 4706, 8836
Hungary 5391
agroforestry, South East Asia 1967
air pollution 594, 5390
heavy metals 7112
biochemistry
carbohydrates 596
carotenoids 8831
biophysics 3116
cassava
Africa 2421
cropping systems 1371
cultivation, methods 1371
soil conservation 1371
cell culture 1364
cell walls
composition, carbohydrates 598
mechanical properties 3116
cereals 2420
Australia 3110
chemical composition 1365-1366, 7111
anthocyanins 5387
climate 2426
climatic change 594, 2426, 3114, 7114
crop husbandry, UK 8826
crop management, models 4702
crop production 6214
cropping systems 6219
deserts, India 1370
dry farming 4705
India 5392
tropical zones 7985
crops
Australia 8825
botany 5386
cultivation, mechanization 7110
Dioscorea, tubers, storage 2422
ecology 594
energy requirements 4703
enzymes, peroxidases 5388
farming systems 4704
dry farming 2425
Ethiopia, research 1966
sustainability, tropics 1346
taungya, South East Asia 1967
tropical zones 7985
field experimentation, experimental design 1968
fodder crops, East Africa 4701
growth 3116
models 600
soil types 6214
growth regulators 1963, 2423
ethylene 2424
polyamines 2424
harvesting, mechanization 7110
irrigation, requirements 7115
land use 4704
legumes 4700
production, tropics 1363
South East Asia 8822
symbiosis 6217
light, determination 7101
metabolism 1964, 3112-3113, 7983
carotenoids 8831
cellulose 598
nitrogen 595, 5389
sterols 597
microscopy 8832
mineral nutrition 593
nitrogen 595
nitrogen fixation, legumes 7108
nodules, metabolism 5390
nutrition 1368
oilseed plants 8824
India 6212
Pennisetum glaucum, seed production 2419
pest control, Australia 7109
phenology
models 5393

Books *cont.*
phenology *cont.*
prediction 5393
photosynthesis 1964-1965, 3117, 4704, 7984, 8829
carotenoids 8831
electron transfer 3115
light harvesting complexes 8830
plant analysis 1365-1366
plant anatomy 3111
plant development 6217
plant introduction 8827
plant nutrition 1367, 6214-6215, 8834-8835
iron 5378
plant organs, mechanical properties 3116
plant physiology 593, 4692, 8828
models 600
plant tissues, mechanical properties 3116
plant water relations 3116, 8833
pollution 594, 3114
heavy metals 7112
potatoes 1960
haulm destruction, methods 1772
remote sensing 1369
reproduction 592
respiration, electron transfer 3115
rice 5383
China 4699
crop husbandry, Uzbekistan 5384
deep water rice 5381
India, Uttar Pradesh 5382
spikelets, development, stress 3109
root crops, production, tropics 1363
roots 1961
development 7113
growth 7113
salinity 3114
seed development 592
seed production 592
soil 6214
statistical analysis 8837-8838
sugarbeet 8823
taxonomy 6213
tissue culture 1364, 6216
translocation, source sink relations 1962, 3113
water stress 8833
waterlogging 3114
wind 5390
yield factors 5385
Botswana, reports, Ministry of Agriculture 3867
Brassica
plant competition, weeds 8799
seed maturation, metabolism 3320
seeds
composition
oils, reviews 3320
proteins 1866
reviews 3320
metabolism
oils, reviews 3320
proteins, reviews 3320
weed control, reviews 8799
Brassica campestris
air pollution, sulphur dioxide 2999
catch crops 463
cell culture
protoplasts 6973
regeneration 6973
cold resistance, cultivars 2997
cultivars
Bangladesh 1231
Eclipse 3751
Reward 3752
dry matter accumulation, models 1251
enzymes
glutamate-ammonia ligase 7925
nitrate reductase 7925
nitrite reductase 7925
oxidoreductases 2214
peroxidases 2997
fertilizers
nitrogen 477
NPK fertilizers 1231
sewage sludge 531
flowering, induction 6067
frost resistance
cultivars 3749
estimation 3749
Brassica campestris *cont.*
growth, models 1251
growth regulators
gibberellins 6067
salicylic acid 1867
leaves
enzymes 2214
metabolism, nitrogen 7925
light 2214
interception 477
metabolism, nitrogen 7925
mineral nutrition, calcium 4591
photoperiod 6067, 6992
pollen 4580
roots
composition
calcium 4591
chloride 4591
potassium 4591
proteins 2997
sodium 4591
rotations
barley 463
wheat 463
row orientation 477
salinity 4591, 8684
seed germination
mineral nutrition 4591
salinity 4591, 8684
seedlings, growth, salinity 8684
seeds
composition
elements 8692
fats 8692
nicotinic acid 8692
phenolic compounds 8692
phytic acid 8692
proteins 8692
riboflavin 8692
sinapine 8692
embryos, development 3754
shoots
composition
calcium 4591
chloride 4591
potassium 4591
sodium 4591
sowing date 7906
spacing 477
Sweden 3762
tissue culture
cobalt 1867
growth regulators 1867
silver nitrate 1867
yield components 1231
Brassica campestris* var. *oleifera (*see* Rape)
Brassica campestris* var. *rapa (*see* Turnips)
Brassica campestris* var. *sarson
crop husbandry 1249
cultivars, India, Haryana 1249
enzymes
nitrate reductase 3753
peroxidases 3753
fertilizers, nitrogen 6073
herbicides
dinitramine 8683
fluchloralin 8683
isoproturon 8683
oxadiazon 8683
trifluralin 8683
intercropping 8683
irrigation 6073
mineral nutrition
copper, deficiency 3753
molybdenum 3753
nitrogen 3753
sulphur 3753
pests, nematodes 5285
seed germination, allelopathy 5286
seedlings, allelopathy 5286
tissue culture, growth regulators 3755
weed control
cultural control 8683
herbicides 8683
Brassica campestris* var. *toria
crop husbandry 1249
cultivars, India, Haryana 1249
fertilizers
nitrogen 479, 6072, 7835
NPK fertilizers 7836
phosphorus 479
Brassica campestris* var. *toria *cont.*
fertilizers *cont.*
potassium 479
sulphur 479, 7835
residual effects 1913
sources 1913
harvesting date 1240
herbicides
dinitramine 8683
fluchloralin 8683
isoproturon 8683
oxadiazon 8683
trifluralin 8683
intercropping 8683
irrigation 479, 1240, 6072
plant density 1240
seed germination, allelopathy 5286
seedlings, allelopathy 5286
seeds, composition, oils 479
shelterbelts 3861
spacing 1240, 7835
weed control
cultural control 8683
herbicides 8683
Brassica carinata
mineral nutrition, calcium 4591
photoperiod 6992
roots
composition
calcium 4591
chloride 4591
potassium 4591
sodium 4591
salinity 4591
seed germination
mineral nutrition 4591
salinity 4591
seeds
composition
elements 8692
fats 8692
nicotinic acid 8692
phenolic compounds 8692
phytic acid 8692
proteins 8692
riboflavin 8692
sinapine 8692
shoots
composition
calcium 4591
chloride 4591
potassium 4591
sodium 4591
Brassica juncea
accumulation, selenium 6971
agroforestry, India, Haryana 6978
air pollution, ethylene 4585
allelopathy, *Imperata cylindrica* 4584
antitranspirants 5327
chemical composition
nitrogen 1868
phosphorus 6979
phytochelatins 484
selenium 6971
zinc 6077
cold injury, protectants 6076
conferences 5375
crop husbandry 1249
cropping systems, India, Uttar Pradesh 8808
cultivars
Canada
Alberta 482
British Columbia 482
India 3001
Haryana 1249
Madhya Pradesh 3000, 8685
Rajasthan 6076
Uttar Pradesh 1872, 6847, 7841
Gujarat Mustard 1 3756
Kranti 4581
Krishna 4582
Pusa Bahar 3757
Vardan 3002
drought resistance 7828
cultivars 1245
dry matter accumulation, models 1251
environment, cultivars 1872
enzymes, nitrate reductase 3758, 6982, 6985, 8687
evaporation 5350

Brassica juncea *cont.*
evapotranspiration 7837
estimation, techniques 4586
fertilizers
calcium 6979
farmyard manure 2720, 6145
nitrogen 480, 1240-1241, 1243, 1868-1871, 2720, 6074, 6078, 6981, 7051, 7838-7839, 7841, 7912, 8686
application date 481, 1244
NPK fertilizers 1242, 2669
paper mill sludge 2669
phosphorus 6078, 6979-6981, 7710
use efficiency 527
potassium 480, 6985, 7710
application date 481
poultry manure 6980
sulphur 5341, 6979, 8686
sources 1913
zinc
application methods 6077
foliar application 6077
green manures, *Sesbania aculeata* 2669
growth, models 1251
growth period 482
growth regulators
abscisic acid 483, 6969
auxins 7842
benzyladenine 6984
caffeic acid 5283
chlormequat 6076
gibberellins 6969, 6983
IAA 6983-6984
Mixtalol 7840
NAA 6984
salicylic acid 5283
2,4,5-T 6983
tannins 5283
TIBA 7842
triacontanol 7840
harvesting date 1240
intercropping
Cicer arietinum 2882, 7055
Lens culinaris 7055
potatoes 6847, 7710
sugarcane 2361, 3805
wheat 516, 7989-7990, 8742
irrigation 516, 1240, 1242-1243, 1868, 1871, 3001, 4443, 6074, 6985, 7838-7839
fertigation 6077
growth stages 1869-1870
irrigation scheduling 7837
leaf area index 480
leaf water potential 1873
leaves
composition
amino acids 3004, 3758, 8687
ash 3004
calcium 3004
carotenoids 4583
chlorophyll 481, 4583
copper 3004
fatty acids 3004
iron 3004
lipids 3004
magnesium 3004
proteins 3004
starch 3758, 8687
sugars 481
zinc 3004
compositon
potassium 6985
proline 6985
removal 5282
senescence 5282
turgor 1873
water content 1873
water stress 1873
metabolism
amino acids 5283, 6982
carbon 4585
organic acids 5283
proteins 5283, 6982
starch 6982
sugars 5283
mineral nutrition
calcium 4591, 6979
nitrogen, deficiency 6982
phosphorus 6979

Brassica juncea *cont.*
mineral nutrition *cont.*
phosphorus *cont.*
deficiency 3758, 6982, 8687
selenium 6971
sulphur 5341, 6979
mineral uptake
iron 6980
nitrogen 1868, 7990
phosphorus 527, 6979-6980, 7990
potassium 7990
sulphur 6980
mulches, straw 516, 7055
multiple cropping 7052
Pennisetum glaucum 2720
Vigna radiata 6078
pests, nematodes 5285
photoperiod 6992
photosynthesis 5282, 6982
air pollution 4585
growth stages 3003
mineral nutrition 8687
photosystem I 4583
photosystem II 2349, 4583
salinity 2349, 4583
plant density 480, 1240, 1243, 1868, 3000, 6074
pods
development 5282
photosynthesis 5282
ripening 5282
pollen 4580
precipitation 5350
relative humidity 5350
root shoot ratio 4584
roots
composition
calcium 4591
chloride 4591
potassium 4591
sodium 4591
rotations
Pennisetum glaucum 7051
sugarcane 3805
Vigna unguiculata 7051
salinity 485, 2349, 4583, 4591
seed dormancy, growth regulators 6969
seed germination
allelopathins 4584
allelopathy 5286
growth regulators 483, 6969
mineral nutrition 4591
salinity 4591
seed treatment 483
seed treatment
growth regulators 483, 6983, 7840
metabolic inhibitors 483
seedling emergence
soil water content 7905
sowing depth 7905
seedlings, allelopathy 5286
seeds
composition
chlorophyll 6983
elements 8692
fats 8692
fatty acids 6991
growth regulators 6969
lipids 4670, 6991
nicotinic acid 8692
nitrogen 1244, 1868, 5341
oils 481, 1244, 1851, 1868, 3000, 4670, 5341, 6075, 6981, 7839, 7841, 8685
phenolic compounds 8692
phytic acid 8692
proteins 1851, 4588, 4670, 7841, 8692
riboflavin 8692
sinapine 8692
starch 6983
sugars 6983
sulphur 5341
metabolism
lipids 4670
oils 4670
proteins 4670
shading 5282
shoots
composition
calcium 4591

Brassica juncea *cont.*
shoots *cont.*
composition *cont.*
chloride 4591
potassium 4591
sodium 4591
soil, zinc 6077
soil amendments
gypsum 2669, 6145
pyrites 6145
sulphur 6145
soil inoculation, Cyanobacteria 2669
soil water content 7905
solar radiation 5350
sowing date 1241, 1851, 6075
sowing depth 7905
spacing 1240, 3000, 8685
temperature 5350
tissue culture
embryo culture 8688
embryogenesis 6079, 7842
explants 6984
growth regulators 6984, 7842
regenerative ability 3759, 6984
somatic embryogenesis 8688
topping 1240
translocation
carbon 4585
photosynthates 3003
water stress 1873, 6985, 7828
water use 516, 1243, 1869, 1871, 4443, 7837
water use efficiency 516, 1243, 1869, 1871, 7837
yield components
cultivars 485, 3000
salinity 485
yield correlations 5350
yields, trends, India 3803
Brassica napus
catch crops 1906
cell culture
protoplasts 6973
regeneration 6973
Brassica napus* var. *napobrassica (*see* Swedes)
Brassica napus* var. *oleifera (*see* Rape)
Brassica nigra
cell culture, protoplasts 8689
cell cultures
metabolism, enzymes 6080
regenerative ability 8689
energy relations 3043
enzymes, phosphotransferases 6080
irrigation 3043
mineral nutrition, phosphorus 3005
multiple cropping, wheat 3043
mycorrhizas 3005
soil, phosphorus 3005
tissue culture
cultivars 1874
culture media 1874
embryogenesis 1874
regenerative ability 1874
Brassica oleracea
enzymes
ligases 1922
sulphotransferases 7068
Brazil
Goiás, *Phaseolus vulgaris*, cultivars 8443
green manures 3041
jute, cultivars 1830
Paraíba, cotton, cultivars 7766
reports, Empresa Capixaba de Pesquisa Agropecuaria 3868
rice, cultivars 5667
Rio Grande do Sul
oats, cultivars 3982
sunflowers, cultivars 2337
Santa Catarina
cassava, cultivars 4654
maize, cultivars 4654
rice, cultivars 4654
soyabeans, cultivars 4654
wheat, cultivars 4654
São Paulo
triticale, cultivars 2070
wheat, cultivars 2070
soil amendments 2377
sowing methods, direct sowing 2377
sweet potatoes, cultivars 1159

Brazil *cont.*
undersowing 2377
wheat, crop husbandry 7127
Buckwheat
catch crops 2372
cropping systems
Bhutan 7006
China 3781
cultivars
Nepal 5511, 7049
Kitayuki 2359
drought resistance 1893
environment, China 3781
enzymes
ligases 1922
phosphoric monoester hydrolases 4658
phosphotransferases 4658
fertilizers
calcium 3029
farmyard manure 554
magnesium 3029
NPK fertilizers 554
phosphorus
application methods 3777
sources 5329
potassium 3029
growth regulators
abscisic acid 8704
cytokinins 8704
gibberellins 8704
IAA 8704
harvesting date 498
herbicides
acetochlor 7007
alachlor 4969, 7007
2,4-D 7007
fluchloridone 7007
linuron 4969
MCPA 7007
mecoprop 7007
pendimethalin 4969
propazine 4969
simazine 4969
toxicity 7007
light
far red light 4606
red light 4606
metabolism, carbohydrates 4658
mineral uptake
calcium 3029
magnesium 3029
nitrogen 6132
phosphorus 6132
potassium 3029, 6132
mulches, plastic film 4605
multiple cropping 6132
barley 1907
wheat 1907
plant competition 4606
pollination 7075
precipitation 554
roots, development 8705
seed development, position 7008
seed germination
herbicides 4969
metabolism, proteins 8704
seedling emergence, herbicides 4969
seedling production 498
seedlings
composition, rutoside 1260
cotyledons, metabolism, proteins 8704
production 1260
seeds
accumulation
carbohydrates 7008
dry matter 7008
proteins 7008
composition
elements 1327
fatty acids 499
phenolic compounds 3779
tannins 3778, 3780
cotyledons, metabolism, proteins 8704
metabolism, proteins 8704
soil types 3029
soil water content 554
sowing date 497-498, 1260, 4605
sowing methods 4605

Buckwheat *cont.*
sowing rates 498, 1260, 4605
tissue culture
culture media 8705
metabolism, flavanols 5295
regeneration 8705
water use efficiency 1893
weed control, herbicides 7007
Bulgaria
potatoes, cultivars 4460
sunflowers, cultivars 452
Burkina Faso, groundnuts, farming systems 2195
Burundi
rice, cultivars 7434
wheat, cultivars 2007
Cabbage (*see Brassica oleracea)*
Cajanus cajan
agroforestry 359-360
India, Andhra Pradesh 6792
air pollution, sulphur dioxide 6799
allelopathy, *Trianthema portulacastrum* 1334
alley cropping 6792
chemical composition, nitrogen 6798
cropping systems, India, Uttar Pradesh 8808
cultivars
Australia, Northern Territory 7899
India, Madhya Pradesh 2255
ICPL161 7665
ICPL87051 1734
enzymes
amylases 8484
catalase 8483
catechol oxidase 8483
β-fructofuranosidase 8484
methyltransferases 8484
nitrogenase 6798
peroxidases 8483
sucrose synthase 8484
farming systems, Mali 4638
fertilizers
iron 6800
nitrogen 3591, 4386, 4388-4390, 6796, 6800, 8481
NPK fertilizers 4389
phosphorus 360, 3591, 4385, 4388, 5112, 6796, 8322, 8481
potassium 6796
sulphur 1308, 4649, 8322
zinc 6796
flowers, abscission 6798
growth period 2255
growth regulators
auxins 8524
benzyladenine 1091
cytokinins 8524, 8781
Cytozyme 8524
2,4-D 1091
gibberellins 1091
IAA 8483
kinetin 1091
NAA 1091
zeatin 1091
harvest index, cultivars 3592
herbicides
alachlor 8482
fluchloralin 1090, 8286, 8482
metolachlor 8286
pendimethalin 1090, 3616
insecticides
BHC 3591
endosulfan 3591
HCH 1736
intercropping 2881, 8741
Dalbergia 359
Eriolaena spectabilis 359
Flemingia macrophylla 359
groundnuts 7688, 8367
Guizotia abyssinica 7829
maize 6136, 7294
Pennisetum glaucum 2255, 4184
rice 5112
safflower 6136
sorghum 3411, 4164, 4386, 4642, 5673, 6585, 8286
soyabeans 4649, 6790-6791, 8322, 8482
sunflowers 448, 4184
tobacco 4593

Cajanus cajan *cont.*
intercropping *cont.*
Vigna mungo 1732
Vigna radiata 3593, 4385, 5113, 5876-5877
irrigation 361-362, 1090, 6794
irrigation scheduling 6794
leaf area index 361, 5877
leaves
composition, carbohydrates 8484
enzymes 8484
metabolism, carbohydrates 8484
metabolism
carbohydrates 8484
growth regulators 8781
mineral uptake, phosphorus 5881
mycorrhizas 5881
nitrogen fixation 5881
cultivars 6800
nodulation 4389-4390, 5881
fertilizers 6796, 6800
nodules
composition, nitrogen 6796
enzymes 6798
pests
Microtermes obesi 6797
Odontotermes obesus 6797
plant competition, weeds 3593, 3616
plant density 5114, 5878-5879, 7899, 8480
pods, composition, insecticide residues 1736
protoplasts
growth regulators 1091
regeneration 1091
ratooning 5878, 8480
relay cropping, rice 1732
research, South East Asia 8365
root exudates, allelopathins 6783
rooting depth 361
roots, growth, soil compaction 362, 5115
rotations, wheat 8480
row orientation 6136
seed germination
air pollution 6799
allelopathy 1334
enzymes 8483
seed treatment 8483, 8524
seed inoculation
Bradyrhizobium 6800
Rhizobium, strains 4389-4390
seed quality 1753
seed size, cultivars 4387
seed treatment, growth regulators 8483, 8524
seed weight, cultivars 4387
seedlings
composition
carotenoids 8524
chlorophyll 8524
growth
air pollution 6799
allelopathy 1334
seed treatment 8524
seeds
composition
insecticide residues 1736
nitrogen 6796
phosphorus 6796
potassium 6796
proteins 1753
sterols 6825
shoots, growth, soil compaction 362, 5115
soil amendments, lime 360
soil compaction 361-362, 5115
soil depth 7689
soil inoculation
Glomus fasciculatum 5881
Rhizobium 5881
soil types 2881, 5115, 5879
soil water content 5115
sowing date 5114, 5877, 5879, 7689, 7907
spacing 5113-5114, 5877, 6790, 6793
submergence, models 3079
taxonomy 2903
water stress 6798, 8484
water use 361, 7907
water use efficiency 4649, 7907, 8741

***Cajanus cajan** cont.*
weed control
cultivation 1090
cultural control 8482
herbicides 1090, 3616, 8286, 8482
manual weed control 1090, 3591, 8286, 8482
yield correlations, cultivars 5880
yields, stability, India, Madhya Pradesh 6795
***Calendula*, seeds, composition, fatty acids 6083**
Cameroon, sorghum, cultivars 4172
Canada
Alberta
barley, cultivars 4827
Brassica juncea, cultivars 482
maize, crop husbandry 4035
rape, cultivars 482
wheat, cultivars 40
British Columbia
Brassica juncea, cultivars 482
rape, cultivars 482
climate, models 7963
maize
agricultural meteorology 7095
cultivars 4853
Manitoba
rape, cultivars 464
wheat
cultivars 6283, 8032
Triticum durum, cultivars 6283
Ontario
groundnuts, cultivars 2818
soyabeans, cultivars 3473
Quebec, soyabeans, cultivars 4979
rape, cultivars 5273
reports
Agricultural Research Institute of Ontario 7096
Agriculture Canada 2410, 3869
Station de Recherche de Saint-Jean-sur-Richelieu 8809
rice, agricultural meteorology 7095
Saskatchewan, wheat, yields, trends 6223
soyabeans, cultivars 1618
wheat, agricultural meteorology 7095
Canavalia brasiliensis
metabolism
lectins 8516
proteins 8516
seed maturation 8516
seeds
composition, proteins 8516
metabolism
lectins 8516
proteins 8516
Canavalia ensiformis
chemical composition, proteins 5138
enzymes, peptide hydrolases 4408
growth regulators, benzyladenine 4409
intercropping, *Ricinus communis* 1202
seed germination, metabolism, thiamin 380
seeds
composition
amino acids 5902
proteins 4409
cotyledons, composition, proteins 4409
embryos, composition, proteins 4409
enzymes 4408
metabolism, thiamin 380
tissue culture
cotyledons 4409
embryo culture 4409
growth regulators 4409
metabolism, proteins 4409
Canavalia gladiata
mycorrhizas 4411
nodulation, mycorrhizas 4411
seeds
composition
amino acids 5902
polyamines 4410
***Canavalia virosa*, seeds, composition, amino acids 5902**
Cannabis sativa
allelopathy 1333
chemical composition
boron 6162
***Cannabis sativa** cont.*
chemical composition *cont.*
calcium 6161
copper 6162
iron 6162
lithium 549
magnesium 6161
manganese 6162
molybdenum 6162
nitrogen 6161
phosphorus 6161
potassium 6161
sodium 6161
zinc 6162
cultivars, Romania 437
fertilizers
nitrogen 6161-6162
application date 5241
application methods 5241
phosphorus
application date 5241
application methods 5241
potassium 528
application date 5241
application methods 5241
flowers, composition, cannabinoids 4541
land use 573
leaves, composition, cannabinoids 4541
mineral nutrition, nitrogen 6161-6162
mineral uptake, lithium 549
photoperiod 1199
reviews 4540
seed germination, allelopathy 1333
seed production 437
soil types, peat soils 7077
soil water content 549
sowing date 437
sowing rates 437
stems, composition, cannabinoids 4541
trichomes 438
Carbon dioxide enrichment, reviews 2396, 3087
Carthamus tinctorius (*see* Safflower)
Cassava
Africa, books 2421
agroforestry 515
Colombia 1951
Malawi 8735
chlorophyll, fluorescence 3693
conferences 5372
cover crops
legumes 1908
Mucuna pruriens 2310
Vigna unguiculata 2310
cropping systems, books 1371
cultivars
Brazil, Santa Catarina 4654
Colombia 2953
EMBRAPA-8 7738
cultivation
methods, books 1371
ridging 3694
disease control, integrated control 8596
diseases
Botryodiplodia theobromae 8596
Fusarium oxysporum 8596
Fusarium solani 8596
Phytophthora drechsleri 8596
Xanthomonas campestris pv. *manihotis* 8596
enzymes
catechol oxidase 2311
peroxidases 2311
phenylalanine ammonia-lyase 2311
sulphotransferases 7068
equipment, harvesters 7740
farming systems
sustainability 8149
Zambia 8149
fertilizers
farmyard manure 4506
nitrogen 2310, 2313, 6012, 6134
NPK fertilizers 6135
phosphorus 4508, 7739
residual effects 4506
sources 4506
potassium 6012
application date 6880
field experimentation
border effects 2313
plot size 2313
Cassava *cont.*
grafting 7739
growth regulators
benzyladenine 5216
chlormequat 4504
ethephon 4504
harvesting, machinery 3692
harvesting date 2311, 2953
harvesting losses 3692
intercropping 1908
Cajanus cajan 1161
cassava 1161
Casuarina equisetifolia 515
coconuts 4504
Eucalyptus camaldulensis 8735
groundnuts 6134-6135
maize 2310, 6134
rice 2310, 6134
soyabeans 2310
sunflowers 1211
Vigna unguiculata 3580, 6135
irradiation, ultraviolet radiation 3693
leaf area index 2312
leaves
anatomy 421
buds, development 6013
composition, potassium 6880
stomata 421
mineral nutrition
phosphorus 7739
potassium 6880
mineral uptake, phosphorus 4506, 7739
mulches
grasses 4505
straw 4505
mycorrhizas 4508, 6016
photosynthesis 4507
light 3693
mineral nutrition 7739
photoinhibition 3693
temperature 3693
plant competition, weeds 1162
plant density 1161, 4504
relay cropping
groundnuts 6134
maize 6134
rice 6134
respiration, light 3693
root shoot ratio 3693, 4504
roots
composition, starch 2953
distribution 4505
enzymes 2311
growth 4505
quality, harvesting date 2311
shoots, removal 2311
soil, erosion 3694
soil compaction 3695
soil conservation 3694
books 1371
soil inoculation
Acaulospora morroveae 6016
Glomus constrictum 6016
Glomus etunicatum 6016
Glomus fasciculatum 6016
Glomus mosseae 6016
soil types 4505
soil water 2312
sowing date 1161
stems, growth 6014
thermal conductivity 2954
tissue culture 6886
embryogenesis 5216, 6015
growth regulators 5216
regeneration 5216
regenerative ability 6881
somatic embryogenesis 6015, 6881
translocation, source sink relations 7739
water use efficiency 2312
weed control, frequency 1162
Castor (*see Ricinus communis*)
Catch crops
Brassica napus 1906
green manures 263
peas 1906
rye 129
Sinapis alba 1906
Cell biology, reviews 551, 3836
Cell culture
books 1364
conferences 4695

Cell differentiation, reviews 6460
Cell division, reviews 7073
Cell membranes
metabolism
fatty acids, reviews 5351
lipids, reviews 542, 3824
plasma membranes
enzymes, reviews 8776-8777
ion transport, calcium, reviews 7065
temperature, reviews 5351
tonoplast, ion transport, calcium, reviews 7065
Cell walls
composition, reviews 6175
enzymes 7933
reviews 7540
growth 7933
models 2388
growth regulators 7933
mechanical properties, books 3116
physical properties
reviews 7932
techniques 7932
structure, reviews 4672, 6175
Cells
adhesion, reviews 552
differentiation, reviews 5082
endocytosis
reviews 5758
techniques 6190
endoplasmic reticulum, reviews 8309
enzymes, reviews 3819
Golgi apparatus
reviews 8788
translocation 6176
growth, reviews 5082, 7932
metabolism
carbohydrates, reviews 6165
proteins, reviews 6165
reviews 3819
microtubules, proteins, reviews 3835
organelles
metabolism, reviews 3819
secretion, reviews 5485
separation, reviews 552
translocation 6209
transport, proteins 551
vacuoles, reviews 5349
Cereals (*see also* individual crops)
accumulation, fructans 267
agricultural meteorology 2747
air pollution
coal dust 7494
fly ash 7494
sulfur 7494
Australia, books 3110
books 2420
cells, mitochondria, enzymes 3454
chemical composition
lectins 8785
zinc 7934
chloroplasts, enzymes 3454
crop management, expert systems, computer software 5158
cultivars
identification 699
Netherlands 6148-6149
cultivation, no-tillage 3448
diseases, Poland 964
enzymes
adenosinetriphosphatase 3454
hydrolases 267, 5711
transferases 267, 5343
evapotranspiration 6179
fertilizers
boron 2386
copper 2179
manures 1302
models 8751
nitrogen 2730, 8302
application methods 2731
foliar application, reviews 6627
sources 2733
use efficiency 2731
NPK fertilizers 1302, 8752
phosphorus 4651, 6629
pig slurry 7486
refuse compost 4195
requirements 8752
sewage sludge 4195
sulphur 6142
Cereals *cont.*
fertilizers *cont.*
sulphur *cont.*
sources 2734
grain
aleurone cells, enzymes 5711
composition
proteins 2748, 8309
determination 699
development, models 966
hardness, determination 2748
mechanical properties, determination 3457
moisture content, determination 2748
quality, reviews 2742
growth, models 5712-5713
growth stages, classification 268, 5347
harvesting
damage 1603
equipment 264
mechanization, reviews 7057
harvesting losses 1603, 8301
combine harvesting 264
intercropping, legumes 2746
irrigation requirements 8747
leaves
development 3075
growth 3075
metabolism, fructans 267
mineral nutrition
aluminium 1608
boron 2386
chloride 2180
copper 2179, 2387
heavy metals 4195
magnesium 1608
nitrogen 8302
mineral uptake
nitrogen 8302
reviews 6164
nitrogen fixation 2746
reviews 1939
pests, Poland 964
pollution, boron 7494
remote sensing
identification 3098
reflectance 3097
roots, enzymes 6164
rotations 5364
fallow 8300
seed development, reviews 967
seed dormancy, reviews 4197
seed germination, reviews 4197
seed production
Belarus 1384
Russia 1384
seed quality 4201
seed testing 2748
seeds
composition
proteins 4201
determination 699
endosperm, differentiation, reviews 967
shoots, mechanical properties, determination 3457
soil
chemical properties 970
heavy metals 4195
soil amendments
lime, models 8751
slags 1916
straw 2730
soil compaction 6634
soil conditioners, zeolites 6630
soil fertility 3842
models 8751
soil physical properties 6634
yield forecasting, models 2747, 7966
yields
models 7948
weather, models 3102
Chemical composition
anthocyanins, books 5387
books 1365-1366
elements, determination, techniques 565
proteins, reviews 3831
trypsin inhibitors, reviews 1329
Chenopodium quinoa, seeds, composition 1261
Chickpeas (*see Cicer arietinum*)
Chile
farming systems 4102
maize, cultivars 765
wheat, yields 3885
China
books, rice 4699
buckwheat
cropping systems 3781
environment 3781
climate 3190
cotton, climate 6041
Jiangsu, rice, cropping systems 5621
Liaoning
land use 3860
maize, production possibilities 4097
maize
agricultural meteorology 7095
cultivars 6433
Ningxia, wheat, climatic change 7211
rice
agricultural meteorology 7095
cultivars 3359, 3362
Shaanxi, cropping systems 4682
soyabeans, cultivars 6649
sweet potatoes, cultivars 5213
wheat 3190
agricultural meteorology 7095
agroforestry 1973
cultivars 1984, 3152, 6271, 7163
land productivity 5459
Yunnan
maize, agricultural meteorology 4146
precipitation 7937
rice, agricultural meteorology 4146
Zhejiang, rice, cropping systems 5621
Chlorophyll
fluorescence
models 2404
reviews 533
temperature, techniques 7946
Chloroplasts
ion transport 5339
metabolism, phosphorylation, reviews 543
Cicer arietinum
air pollution, dust 2886
allelopathy
Pennisetum glaucum 3076
sorghum 5345
antitranspirants 5327
branches, removal 5116
cell cultures, enzymes 6808
cell division, growth regulators 2256
cell walls
composition
cellulose 8496
hemicelluloses 8496
pectins 8496
enzymes 6807
growth 8496
water stress 8496
cells
endocytosis 1737
enzymes 6808, 7670
vacuoles 7670
chemical composition
amino acids 8497
betaine 6811
calcium 5885
chlorophyll 3596, 4391
iron 3596
lead 8796
magnesium 5885
nitrogen 5885
phenolic compounds 7670
phosphorus 2887
proline 5889, 6811
starch 5889
sugars 5889
cultivars
genotype environment interaction 4393
identification, techniques 6813
India 4393
Bihar 8498
Madhya Pradesh 1098
Italy 1095
Syria 6806
Zambia 1097
ICCV6 1099
Kalika 8490

Cicer arietinum *cont.*
- cultivars *cont.*
  - Noor 91 3595
  - Norwin 8491
  - Paidar 91 3595
  - Phule G12 3594
  - Punjab 91 3595
  - Pusa-261 2884
- cultivation
  - methods 6802
  - no-tillage 5400
  - ploughing 5400
- diseases, *Ascochyta rabiei* 6806
- drought resistance 1741
- dry matter distribution, water stress 3599
- enzymes
  - alanine aminotransferase 5889
  - amylases 3597, 5889, 6810
  - aspartate aminotransferase 5889
  - carboxy-lyases 8494
  - esterases 7670
  - galactosidases 6807, 8495
  - glucosidases 6807, 8495
  - glutamate-ammonia ligase 7925
  - glycosidases 6807, 7670
  - hydrolases 6808, 7670
  - IAA oxidase 1100
  - lyases 4395
  - nitrate reductase 367, 7925, 8497
  - nitrite reductase 7925
  - nitrogenase 367, 4396
  - oxidoreductases 2896, 4395, 5118
  - peroxidases 1100, 6810
  - ribulose-bisphosphate carboxylase 8497
  - (s)-2-hydroxy-acid oxidase 375
- epicotyls
  - growth 8495
  - water stress 8495
- evaporation 5350
- evapotranspiration, estimation 7070
- farming systems, Mali 4638
- fertilizers 6139
  - boron 5117, 6827, 7668
  - cobalt 6827
  - crop residues 8284
  - farmyard manure 4398, 8284
    - residual effects 209, 8489
  - manganese 7668
  - molybdenum 6827
    - foliar application 4398
  - nitrogen 364, 1096, 1735, 1844, 4398, 5297, 5886, 6812, 6827, 8284, 8486, 8488
    - foliar application 4398, 5884
  - phosphorus 364, 1096, 1735, 2887, 3601, 4392, 4398, 5885, 6812, 7059, 7667, 8284, 8486-8488
    - foliar application 5884
    - sources 5886
    - use efficiency 527
  - potassium, foliar application 5884
  - sulphur 5885, 7667
    - requirements 1116
  - zinc 7668, 8284
    - residual effects 209, 8489
    - sources 209, 8489
- flowers, abscission 2226
- green manures 4398
- growth period 5122
- growth regulators
  - abscisic acid 1101, 2256, 4395, 5119
  - amino acids 3596
  - auxins 1101, 6808
  - benzyladenine 1103
  - chlormequat 3598, 4396-4397
  - chlorogenic acid 1100
  - colchicine 4396-4397
  - cytokinins 1101, 1738
  - 2,4-D 1102
  - dimethyl sulfoxide 3598
  - ethylene 4395
  - gibberellins 1101, 3596-3597, 5119, 6809
  - IAA 1103, 3596, 5119
  - IBA 1102-1103
  - kinetin 1102, 4396-4397, 5119, 6809
  - NAA 1102
  - Paras Photosynth 3807
  - phenolic compounds 1100
  - polyamines 4395

Cicer arietinum *cont.*
- growth regulators *cont.*
  - salicylic acid 1100
  - terbutryn 3598
  - thidiazuron 5146
- herbicides
  - ametryn 6805
  - fluazifop-P 8492
  - fluchloralin 4391, 5121, 6805, 8492, 8801
  - fluroxypyr 8492
  - glyphosate 8492
  - haloxyfop 8492
  - isoproturon 8492
  - metoxuron 8492
  - metribuzin 5121, 6805
  - pendimethalin 5121, 6805, 8492, 8801
  - residual effects 8801
- insecticides
  - DDT 365
  - HCH 365, 1736, 8486
- intercropping
  - *Annona squamosa* 8739
  - barley 8485
  - *Brassica juncea* 2882, 7055, 8485
  - *Lens culinaris* 7055
  - *Linum usitatissimum* 2882, 3807, 7054, 8485
  - *Phyllanthus emblica* 8739
  - safflower 2882-2883, 3807, 5882, 6801, 6804, 7054, 8485
  - sesame 3807
  - sugarcane 2361, 5297, 8709-8710
  - sunflowers 1844
  - wheat 516, 8485
- irradiation, gamma radiation 5892-5893
- irrigation 516, 1096, 4641, 5883, 6137, 6804
  - channel irrigation 363
  - flood irrigation 363
  - growth stages 5884
  - requirements 7070
- irrigation scheduling 1096
- leaves
  - accumulation
    - organic acids 2885
    - sucrose 2885
  - composition
    - chlorophyll 2886, 5121
    - sulphur, determination 1116
  - enzymes 367
  - metabolism, nitrogen 7925
  - osmoregulation 2885
  - trichomes 1737
    - composition, calcium 5120
  - water relations 2885
- metabolic inhibitors, chlorpromazine 3597
- metabolism
  - carbohydrates 6807
  - chlorophyll 5893
  - nitrogen 7925
  - polyamines 2256
- mineral nutrition
  - aluminium, toxicity 5118, 5889
  - boron 7668
  - iron, deficiency 3596
  - manganese 7668
    - deficiency 8493
  - nitrogen 8497
  - potassium, deficiency 5890
  - sulphur, foliar diagnosis 1116
  - zinc 7668
- mineral uptake
  - caesium 6139
  - nitrogen 8487
  - phosphorus 527, 2887, 3601, 7667
  - radionuclides 6139
  - strontium 6139
  - sulphur 1116
  - zinc 209, 8489
- mulches 8743
  - straw 516, 7055
- multiple cropping 8733
  - *Cyamopsis tetragonoloba* 8743
  - groundnuts 7903
  - maize 8743
  - *Pennisetum glaucum* 8743
  - rice 513
  - sesame 7903

Cicer arietinum *cont.*
- multiple cropping *cont.*
  - sorghum 4640-4641, 8284, 8743
  - *Vigna unguiculata* 8743
- mycorrhizas 2887, 3601, 8501
- nitrogen fixation 4394
  - cultivars 367
  - growth regulators 1100, 6809
  - herbicides 5121
  - light 3600
  - sucrose 3600
  - water stress 3599
- nodulation 6812, 8488, 8499-8501
  - fertilizers 4398, 6827, 8487
  - growth regulators 1100, 6809
  - herbicides 5121
- nodules
  - composition
    - carbohydrates 3600, 4394
    - leghaemoglobin 5121
    - phosphorus 7667
    - starch 3600
    - sugars 3600, 4394
  - enzymes 1100, 4396
  - metabolism 8498
  - number 4398
  - respiration 3600, 4394
- pests, rats 7669
- photosynthesis
  - growth regulators 4397
  - isotope fractionation 375
  - mineral nutrition 8497
  - temperature 8497
- plant density 1844
- pods
  - abscission 2226
  - composition, insecticide residues 1736
- pollen, viability 5119
- pollen germination, growth regulators 1101, 5119
- pollution
  - caesium 7078
  - lead 8796
  - radionuclides 7078
- precipitation 5350
- relative humidity 5350
- relay cropping, rice 513
- research, South East Asia 8365
- respiration 3599
  - growth regulators 4397
- root exudates, organic acids 8498
- rooting depth 1740
- roots
  - distribution 1740
  - enzymes 4396
  - growth 1740, 5890
  - uptake, insecticides 365
- rotations 5297
  - rice 5400, 6137
  - sorghum 257
- salinity 375, 1104, 6811
- seed germination
  - allelopathy 3076, 5345
  - enzymes 3597, 4395, 6810
  - growth regulators 1738, 3597, 4395
  - industrial wastes 558
  - metabolic inhibitors 3597
  - metabolism
    - proteins 6810
    - sugars 6810
  - seed treatment 5892, 6810
  - temperature 4395
  - water stress 1741, 6810
- seed inoculation
  - *Aspergillus awamori* 6812
  - *Pseudomonas* 1092
  - *Pseudomonas striata* 6812
  - *Rhizobium* 4398, 6812, 8487-8488, 8501
    - strains 8499-8500
- seed size 1093
  - cultivars 1739
- seed treatment
  - boron 7668
  - copper 6810
  - hydrophilic polymers 5887
  - industrial wastes 558
  - irradiation 5892
  - manganese 7668
  - mutagens 5893

Cicer arietinum *cont.*
seed treatment *cont.*
soaking/drying 6810
zinc 6810, 7668
seed weight, cultivars 1739
seedbed preparation 6802
seedling emergence, cultivars 1739
seedlings
composition
ascorbic acid 5118
nucleic acids 5118, 5892
phenol 5118
proline 5118
enzymes 5889
growth
allelopathy 3076
cultivars 1739
industrial wastes 558
seeds
composition
cystine 1739
fats 5124
fibre 5124
insecticide residues 1736
iron 1739
nitrogen 364
nucleic acids 5892
phosphorus 364, 1739, 7667
proteins 364, 1096, 1105, 5124, 6813, 7668
sterols 6825
embryos
growth regulators 2256
metabolism 2256
enzymes 4395
growth regulators 4395
imbibition, cultivars 1739
storage
containers 5123-5124
deterioration 5123
moisture content 5123
temperature 5123
shelterbelts 3861
soil, boron 5117
soil amendments, hydrophilic polymers 5887
soil conservation 1348, 2427
soil fertility 5122
soil inoculation
Aspergillus awamori 6812
Pseudomonas striata 6812
Rhizobium 4398, 6812, 6827
soil pH 5122, 8498
solar radiation 5350
sowing date 1094-1095, 1740, 2427, 5122, 5883, 6803, 7666, 8486
sowing methods 8743
broadcasting 5400
direct sowing 5400
sowing rates 4391
spacing 4392, 6803, 7666
straw, composition, phosphorus 7667
taxonomy 1105, 2903
temperature 5350, 8497
tissue culture
explants 1102
growth regulators 1102-1103, 5146
regeneration 5146, 7671
seeds 5146
somatic embryogenesis 7671
translocation
nitrogen 3599
source sink relations 4394
transpiration 8497
antitranspirants 5891
water conservation 1348
water requirements 7070
water stress 2885, 3599, 6810, 8495-8496
growth stages 366
water use 363, 516, 1096
water use efficiency 363, 516, 1096, 4649, 8497
weed control
herbicides 6805, 8492
manual weed control 6805
weeds
Anagallis arvensis 6805, 8492
Asphodelus fistulosus 6805
Chenopodium album 6805, 8492
Convolvulus arvensis 6805

Cicer arietinum *cont.*
weeds *cont.*
Fumaria parviflora 6805, 8492
Lathyrus aphaca 8492
Melilotus alba 8492
Melilotus indica 6805
Vicia sativa 8492
yield components 1093
growth regulators 3598
yield correlations 2883, 5350, 5888
yield targets 2427
yields 1106
models 5122
trends, India 3803
Circadian rhythm, reviews 553
Climate
Australia
Western Australia
barley 6125
Lupinus angustifolius 6125
oats 6125
wheat 6125
barley 8798
books 2426
China 3190
cotton 6041
grain crops, production, India 4648
maize 8798
mediterranean climate, Australia 6196
models, Canada 7963
Mongolia 1349
plant physiology 548
Poland 7094
reviews 6177
rice, Japan 913
rye 7237
sorghum 8798
soyabeans 8798
Korea Republic 4261
Mexico 4262
sugarbeet 8798
Ukraine 395
sunflowers 8798
tobacco 8798
USA, Pennsylvania 171
wheat 3190, 8798
Triticum durum 8798
Climatic change
barley, models 1940
books 594, 2426, 3114, 7114
fodder beet, models 1940
greenhouse effect 6185, 6197
maize
Europe 2645
USA 6329
Mediterranean countries, land use 4687
models 2694, 3103, 5361
Czechoslovakia 3847
New Zealand 3448
plant nutrition 3088
potatoes, models 1940
rape, models 1940
reviews 1656, 3087
rice, Japan 2693, 2695
Russia 7732
simulation, techniques 8088
USA
Iowa 3862
Kansas 3862
Missouri 3862
models 577-581
Nebraska 3862
wheat
China, Ningxia 7211
models 1940, 2506, 2516
USA 6329
yields, models 4689
Cocoyams *(see Colocasia esculenta)*
Coix lacryma-jobi
enzymes, hydrolases 3307
seedlings, composition, aromatic compounds 7492
seeds, enzymes 3307
Coleus rotundifolius, tissue culture, regenerative ability 8599
Colocasia esculenta
corms
grading 7742
storage, methods 1164
crop husbandry 2956
USA, Florida 7898

Colocasia esculenta *cont.*
diseases, *Phytophthora colocasiae* 7743
fertilizers
nitrogen 4511
application date 6022
phosphorus 4511, 6022
potassium 4511
application date 6022
flooding 2956
harvesting, damage 7742
mineral uptake
nitrogen 4511
phosphorus 4511
potassium 4511
roots, distribution 6024
tissue culture 6884, 6886
yield components 4512
yield correlations 4512, 6023
Colombia
cassava
agroforestry 1951
cultivars 2953
maize, agroforestry 1951
potatoes 8545
reports, Centro Internacional de Agricultura Tropical 7970
seed certification 3051
seed production 3051
sugarcane
agroforestry 1951
cultivars 4625
Computer software, potatoes, growth, models 1158
Conferences
16th ICID European regional conference 5605, 5833, 5921, 6027
Academia Sinica 7439
Adjuvants for agrichemicals 6280-6281, 6905, 8573
Advances in management and conservation of soil fauna 6123
African savannas, fertile soils? 2173, 2195-2196, 2314, 2319, 2377, 2379, 2408
Agricultural and forest meteorology 2418
Agricultural and horticultural use of sewage products 7977
Agricultural engineering and rural development 1699, 1863, 2437, 2741, 2993
Agroecology and Conservation Issues in Tropical and Temperate Regions 4706
Agronomy and natural resources in the tropics 1358
Allelopathy in agroecosystems (agriculture & forestry) 693, 923, 1089, 1112, 1334
Alternative fertilizers in relation to the phosphate deposits of tropical and subtropical America 3811-3812, 4618, 4651-4653, 5559-5564, 5566-5567, 5677
American Society of Plant Physiologists 6211
Annual Chilean Agronomic Congress 8818
Applied climatology 2418
Applied soil physics in stress environments 2435
Australasian Postharvest Conference 708
Australian maize conference 7978
Australian Society of Sugar Cane Technologists 1955
Australian sorghum conference 6579-6580, 6586-6593, 6595-6598, 6602, 6607, 6610-6611, 6613, 6617, 7072, 7100
Beltwide cotton production research conferences 1169
Botanical pesticides in integrated pest management 7529
British Ecological Society 3532
Canadian Society of Plant Physiologists 6211
Cassava breeding, agronomy and utilization research in Asia 4693
Cellular and molecular aspects of the plant hormone ethylene 6957
Characterization of gas exchange in plant growth chambers 6284, 6332

Conferences *cont.*
China National Rice Research Institute 5373
Chloroplast metabolism and its inhibition by herbicides 8330
CO_2 and biosphere 4696
Combating striga in Africa 6605
Computer-based plant protection advisory systems 1295
Conference on hydroclimatology 7364, 7964
Cooperation Centre for Scientific Research Relative to Tobacco 1958
Cowpea genetic resources 1729
Crop genetic resources of Africa, volume two 6789
Crop protection in Northern Britain 8671-8672
Crop structure and light microclimate: characterization and applications 7101
Danish Plant Protection Conference, Pests and Diseases 6380, 7091
Development of K-fertilizer recommendations 661
Drainage and water table control 8198, 8274, 8321, 8349
Eleventh International Plant Nutrition Colloquium 4694
Environmental aspects of animal production 7136, 7324, 7486-7487, 7494, 7916
Environmental models: emissions and consequences 1439, 1940
Environmentally-friendly plant production 2415
European Society for Agronomy 7-8, 23, 34, 45, 57, 60, 66, 68-70, 109, 119, 148, 164, 177, 240, 252, 254, 268, 289, 292, 295, 298, 301, 325, 336, 343, 366, 371, 392, 408, 415, 440, 449, 473-474, 497, 547, 667, 669-671, 674, 678, 681, 717, 739, 744, 826, 935, 941, 966, 1032, 1140, 1199, 1213-1214, 1217, 1325, 1373, 1386, 1388, 1421, 1461, 1463, 1467, 1480, 1518, 1528, 1590, 1607, 1704-1705, 1793, 1802, 1854, 1919, 1932, 2032-2033, 2052, 2075, 2080, 2091, 2096, 2109, 2112, 2121, 2129, 2295, 2340, 2347, 2432, 2534, 2576, 2754, 2789, 2823, 2931, 2988, 3044, 3054, 3059, 4683, 5471-5472, 8043, 8571
Fertilizer use efficiency under rainfed agriculture in West Asia and North Africa 8015-8017, 8302
Fifteenth international carbohydrate symposium 3823, 3831
Fifth Penn State symposium in plant physiology 2424
First international conference on NMR microscopy 8832
First international weed control congress 639, 642, 756, 786, 874, 1130, 1196, 1820, 1943, 3164, 3476, 3765
First national workshop on tuber crops 5372
Fourth international symposium on genetic aspects of plant mineral nutrition 2488, 2509, 2587, 2875, 3064-3066, 3082, 3091, 3108
Genetic aspects of plant mineral nutrition 1359
Gesellschaft für Pflanzenbauwissenschaften 2415-2416
Guaranteed quality in industrial production 8787
Hawaiian Sugar Technologists 589-590, 1281-1282
Hungarian plant biology congress 1957
ICID 3rd Pan American Regional Conference 8653
Impact of global climatic change on photosynthesis and plant productivity 1656, 1938, 2057, 2193, 2244, 2396-2397, 2514, 3579
Improved vegetable production through the use of fertilizer, mulching and irrigation systems 5020
In vitro culture 5993, 7004

Conferences *cont.*
In vitro culture and horticultural breeding 5989
Institut de Recherches Agronomiques Tropicales et des Cultures Vivrières 1358
Integrated control in oilseed rape 7820
Integrated land use 2416
Integrated land use management for tropical agriculture 4681
Interamerican Society for Tropical Horticulture 421
International agricultural engineering conference 3457, 3692, 3790, 4103, 4163, 4208, 5123-5124
International Commission on Irrigation and Drainage 6642-6643, 6674-6675
International Congress of Plant Physiology, volume two 921
International lupin conference 7979
International symposium of parasitic weeds 6783, 8430
International symposium on biological control of weeds 6278
International symposium on crop protection 638, 2106
International symposium on medicinal and aromatic plants 7845
International symposium on paddy soils 5618, 5621, 5626-5627, 5632-5633, 5638-5640, 5649, 6493, 6495, 6506, 6511, 6513, 6518-6519, 6522-6523, 6526, 6530
International symposium on plant lipids 42, 49, 73, 87-89, 112, 154, 290, 323, 410-411, 443, 454, 456, 470-472, 486, 490, 542
International symposium on the biology of weeds 2470, 2761
International symposium on the molecular genetics of plant-microbe interactions 1635
International symposium on the role of sulphur, magnesium and micronutrients in balanced plant nutrition 794-795, 853-855, 959, 1190, 1232, 1306-1309, 1338, 1357, 2013-2014, 2031, 2137-2139, 2179-2180, 2341, 2350, 2382-2383, 2386-2387
International workshop on sensors in horticulture 790
Iron nutrition and interactions in plants 5378
Land reclamation. Advances in research technology 8707
Land use in the humid tropics 6208
Maintaining potato productivity into the 21st century 3663, 3880
Modeling crop photosynthesis — from biochemistry to canopy 3882
Molecular and cell biology of the plant cell cycle 7073
Mungbean meeting 90 6766
National symposium and workshop on grain legumes 8819
National symposium on growth and differentiation in plants 3891, 3894, 3912, 3929-3930, 3946-3947, 3994, 4002, 4017, 4109, 4194, 4318, 4357, 4359, 4382, 4384, 4394, 4396-4397, 4441, 4551, 4613, 4668, 4692, 4763, 4807, 5098, 5283, 7338
New horizons in nitrogen fixation 8454, 8519
New Zealand plant protection conference 4742, 7107
Ninth international congress on photosynthesis 1360, 6382-6385, 6388, 6441-6442, 6717, 6731, 6955, 6997, 7103-7106
Nitrate and farming systems 588
Nitrates-agriculture-eau 617, 624, 698, 727, 1124
North American tannin conference 8820
North Central Weed Science Society 1959
Oil plants 5375
Pest management in rice 882, 1539
Phytochemical Society of Europe 153, 322, 537-538, 540-541, 595

Conferences *cont.*
Plant biotechnology and the oils and fats industry 8824
Plant breeding and sustainable agriculture 6195
Plant growth-promoting rhizobacteria — progress and prospects 4698
Plant protection in the tropics 3374-3376, 4127-4128
Plant roots and their environment 3182-3183, 3193, 3206, 3227, 3246-3247, 3250, 3260, 3263, 3277, 3287, 3292-3296, 3306, 3310, 3313-3314, 3322-3323, 3327, 3330-3331, 3378, 3395, 3428, 3539, 3549, 3631, 3723, 3729, 3746, 3840, 3878, 5817, 6472, 7228, 7280
Plant sciences today 3877
Plant soil interactions at low pH 7172-7176, 7209, 7348, 7455-7458, 7582, 8498
Practical applications of agrometeorology in plant protection 260
Proceedings 16th ICID European regional conference — drought phenomena 8074, 8199-8200, 8202, 8310, 8746, 8791-8792
Proceedings Middle East Sulphur Symposium 20, 33, 107, 150, 278, 316, 332, 370
Proceedings of the 1991 cotton research meeting 8821
Production and protection of legumes 1050-1051, 1301
Production and protection of potatoes 3879, 5976
Production and protection of sugarbeet 5379
Production, post-harvest technology and utilization of potato in the warm tropics 399-401, 404, 416, 418, 587, 1782, 1801, 2307
Progress in plant cellular and molecular biology 4695
Progress in plant growth regulation 5452-5453, 5530-5531, 5591-5592, 5658, 5803-5808, 5837-5838, 5990, 6067, 6094, 6169, 6172-6174, 8126, 8133-8136, 8174, 8180-8183, 8187, 8211, 8260, 8343, 8419, 8449, 8473, 8527, 8695, 8697, 8732, 8749, 8781-8782
Prospects of rice farming for 2000 5373
Regional groundnut workshop for southern Africa 6710, 7980, 8358-8368, 8370, 8375, 8380, 8383-8384, 8395, 8398
Regional wheat workshop for eastern, central and southern Africa 1969-1971, 1974, 1976, 1978, 1981, 1985, 1988, 1991, 1994-1998, 2007-2008, 2012, 2015, 2017-2019, 2024, 2039, 2041, 2050, 2417, 6293, 7186
Regulation of chloroplast biogenesis 6298, 6301-6302, 6390-6391, 6732, 6734, 6754, 6987, 7102, 7273-7275, 7283, 7596, 7639, 7641
Research on rapeseed mustard 1362
Risk in agriculture 954
Role of biological nitrogen fixation in sustainable agriculture 304, 561, 586
Root crops and the African food crisis 4697
Root distribution, and chemistry and biology of the root-soil interface 3197, 3207, 3328, 3343, 3436, 3713, 3828, 3834, 3851, 3881, 6323, 6444-6445, 6451, 6720, 6912
Second international desert development conference 8125, 8393, 8464, 8552
Second international nematology congress 4466
Sixth annual Penn State symposium in plant physiology 5380
Sixth international symposium on iron 5900, 6059, 6153-6154, 6156-6160, 6210

Conferences *cont.*
Society for Experimental Biology 1964, 5485, 5492, 5711, 5758, 5818, 6165, 6176, 6190, 6209
Soil fertility and plant nutrition 7392
Soil specific crop management 8007
Soil structure/soil biota interrelationships 8062, 8087
South African maize breeding symposium 243, 787, 1361
South African Sugar Technologists' Association 7029
Sugar Technologists' Association of India 5376-5377, 8722
Sugarbeet quality 1755
Sustainable agriculture research and education in the field 574-575, 585
Swedish crop protection conference 5969, 6357, 6866
Symposium on scheduling of irrigation for vegetable crops under field conditions 2237, 2373, 3048
The role of sulphur, magnesium and micronutrients in balanced plant nutrition 1392, 1547, 1608, 1912, 1914
Tillage in arid and semi-arid areas 3898, 6802
Timing of field production of vegetables 5162, 5167, 5198, 5988
Trends in agricultural engineering 3010, 6313, 7254, 7936, 8597
True potato seed in Latin America 7981
Use of plants for toxicity assessment 4821, 4989
Vesicle traffic and protein transport in plants and yeast 4799, 4825, 5006-5007, 5052, 5058, 5349, 5374
Water saving techniques for plant growth 5402, 5674, 6177
Weed Science Society of America 7982
Wheat genetics symposium of Japan 62
World conference on oleochemicals 6083
Costa Rica
land use, remote sensing 1949
maize, agroforestry 8150
reports, Ministerio de Agricultura y Ganaderia 4691
Côte d'Ivoire, reports, West Africa Rice Development Association 5368
Cotton
accumulation
starch 1315
sucrose 1315
sugars 1315
agricultural meteorology, Europe 599
agroforestry, India, Tamil Nadu 6133
air pollution, ozone 5356
allelopathy, sunflowers 1196
bolls
abscission
growth regulators 7756
water stress 5228
development 4537
initiation 4522
number 1172
temperature 4537
buds, removal 428, 6029, 7759
carbon dioxide 8616
carbon dioxide enrichment 1938, 3712, 7772, 8627
cell cultures, enzymes 7927
cell membranes, plasma membranes, enzymes 6909
cell walls
composition
cellulose 598, 6913
polymers 6913
polysaccharides 5234
metabolism, polysaccharides 5234
chemical composition 4650
amino acids 7767
calcium 1183
chlorophyll 7767
elements 7005
magnesium 1183
nitrogen 6893
phenols 7767
pigments 2397
proteins 4534-4535, 6039
starch 4534
Cotton *cont.*
chemical composition *cont.*
sugars 4534, 7767
sulphur 7768
chlorophyll, fluorescence 8624
circadian rhythm 4536
climate, China 6041
climatic change, India 1938
cold resistance 1826, 4536
conferences 1169, 8821
cotyledons
abscission 6037
growth regulators 6037
cover crops
Trifolium incarnatum 4516
Vicia sativa 2376
Vicia villosa 4516
wheat 2376, 4517
crop management, models 5236
cultivars
Bangladesh 1184
Brazil, Paraíba 7766
Egypt 4523
genotype environment interaction 6891
identification, techniques 6901
India 4524, 5221-5222
Madhya Pradesh 2321
Maharashtra 7747, 8600
Italy 2322, 7764
USA
Alabama 7768, 8606
Arkansas 5223, 6899
Texas 8605
Uzbekistan 6900
CNPA Precoce 1 7766
Acala 1517-SR3 4529
CRDI1 8609
CS50 4527
CS75 4527
KSA81M 6904
Letaba 2959
NIK2 2959
OR19 2959
Pima S-7 4528
Reba P288 1185
Samcot 9 1819
Samcot 10 1819
Savita 4526
Sicala 34 4527
Siokra L23 4527
SoyuzNIKhI11 3710
Suwon-3 6903
TSKhI21 8610
cultivation
conservation tillage 4517
minimum tillage 1167, 4517, 6582
no-tillage 4517
defoliants 2317
aldehydes 3706
butifos 3705
cacodylic acid 3705
demithipim 432
diuron 3705
ethephon 4520, 6028, 6914
fusicoccin 6914
Harvade 7757-7758
paraquat 4520
quaternary ammonium compounds 1816
reviews 8604
sodium cacodylate 3705
sodium chlorate 3705
sodium chloride 4520
thidiazuron 3705, 4520, 6028, 6914
urea 4520
defoliation 3705, 6906
desiccants, reviews 8604
determinate and indeterminate habit 428
diseases
Alternaria macrospora 1188
models 1188
Xanthomonas campestris pv. *malvacearum* 3711
drainage systems, subsurface drainage 434
drought 1825
drought resistance 1192, 2329, 6897, 8601
cultivars 6043
dry matter distribution, water stress 1825
Cotton *cont.*
energy exchange, models 8623
energy relations 524
energy requirements 4703
enzymes
amylases 4534, 8617
catalase 3716
catechol oxidase 3714, 6910
cellulose synthase 6032
β-fructofuranosidase 2963, 3715, 4534
isomerases 8618
ligases 2963
nitrate reductase 6029, 8619
oxidoreductases 6910
peroxidases 3714, 3716, 6035, 6910
phosphoenolpyruvate carboxylase 1824, 2327, 3712, 8616
phosphotransferases 2327, 8618
ribulose-bisphosphate carboxylase 1824, 4533, 8618
sucrose synthase 3715
transferases 6032-6033, 6909, 7927
evapotranspiration 1172, 2957, 5230
estimation 1932, 7070
farming systems
Mali 2314
Togo 2314
fertilizers 2317, 4650
Africa 2319
boron 2386, 2874, 3708
foliar application 6908
calcium 1182
farmyard manure 2320
residual effects 1178
iron
application date 3709
foliar application 3709
molybdenum 3708
nitrogen 1178, 2874, 3276, 3701, 3709, 4515, 4518, 4522-4523, 5219, 6888, 7061, 7745-7746, 7748, 7760, 7772-7773, 8611
application date 1167, 1179
application methods 1167
models 5236
foliar application 6897, 7761-7762
requirements 435
models 8756
sources 429, 1167, 1182, 7761-7762
use efficiency 1167
NPK fertilizers 425, 1168, 1170, 2315, 2321, 2874
phosphorus 1178, 1817, 4515, 4518, 7061, 7763
application date 6896
application methods 6896
foliar application 3707, 5220
requirements, models 8756
sources 1180, 1182
potassium 1178, 1182, 2320, 3053, 4515, 7061
foliar application 6897
requirements 1181
sewage sludge 6898
sulphur 2874
trace elements, foliar application 7762
zinc 3708
application date 3709
foliar application 3709, 7763
fibres
anatomy, cultivars 1821
cell membranes, plasma membranes, enzymes 6909
colour 8621
composition
caffeic acid 8621
cellulose 8620
fatty acids 8621
glucans 6031
pectins 8620
proteins 6909, 8620
suberin 8621
sugars 3715
waxes 8620-8621
reviews 3717
development 2962, 3715, 3718, 6036, 6913

Cotton *cont.*
fibres *cont.*
enzymes 2327, 3714-3715, 6032-6033, 6909
growth 3718
metabolic inhibitors 3718
metabolism
amino acids 6036
glucans 6031-6033
organic acids 6036
proteins 6036
sugars 3715, 6036
quality 1167, 1184, 1817, 2964, 3702, 3707, 6890, 6892, 7762
cultivars 7764, 8607, 8620
defoliants 7758
flowering 1195
flowering date 4518
flowers
abscission, growth regulators 7756
buds
development 6915
differentiation 6915
removal 4534
growth 8622
ovules
hairs 2326
luminescence 2326
metabolism 2326
water stress 5228, 8622
Gossypium arboreum 6916, 7765, 8617
Gossypium barbadense 7745-7746
green manures
Trifolium incarnatum 4516
Vicia villosa 4516
growth 7766
salinity 5232
growth regulators
abscisic acid 1191, 3714, 6036-6037, 7755-7756, 7769, 7811
ACC 5225
benzimidazoles 4667
benzyladenine 3550, 7755-7756
chlormequat 427, 6893, 6895, 7755-7756, 8603
determination 3721
cytokinins 4667
2,4-D 6894, 6917
daminozide 7755-7756
ethephon 8602
ethylene 1827, 5224, 6037, 6914
gibberellins 3550, 6036, 6894, 6917, 7755-7756
IAA 3550, 5225, 6036-6037, 6917, 7755-7756, 7769
isopentenyladenosine 7769
kinetin 8141
mepiquat 430, 1192, 3704, 8603
Mixtalol 1824
NAA 3707, 6892
thidiazuron 6917
triacontanol 6892
harvest index, cultivars 7765
harvesting
machinery 2318
mechanization, reviews 7057
heat resistance 4536
heat shock 1827
herbicides
adjuvants 6905
cyanazine 1186, 2376
2,4-D 6894
damage 8612
diuron 427, 2376
fluometuron 1186, 2323
fomesafen 4530
haloxyfop 4530
linuron 2376
methazole 6905
MSMA 1186
norflurazon 1186
pendimethalin 4530
prometryn 2376
pyridine herbicides 1341
quinclorac 8612
treflix 8611
triclopyr 8612
insecticides
chlorpyrifos 7767
cypermethrin 4532, 7767
endosulfan 4532

Cotton *cont.*
insecticides *cont.*
etofenprox 7767
fenvalerate 2874, 4532, 7767
monocrotophos 4532, 7767
pirimicarb 2874
intercropping 8741
barley 4515
groundnuts 6686, 7747
maize 3699
soyabeans 5716, 7745-7746
Vigna mungo 8737
Vigna radiata 7747, 8737
Vigna unguiculata 2874
irradiation, ultraviolet radiation 2397
irrigation 426, 2317, 2957, 3704, 4519, 6686, 7772, 8601
cultivars 3702
drip irrigation 1171
factory effluents 8744
fertigation 6030
flood irrigation 1171, 3701, 6026
furrow irrigation 1174, 1177, 3701, 4517, 6026
growth stages 1171, 3702
requirements 7070
saline water 1176, 3702, 6027, 8748
sodic water 8748
sprinkler irrigation 1172, 2958, 3703, 6026, 7754
trickle irrigation 1177, 7753
irrigation scheduling 3705, 7752
models 1173
irrigation water, magnetic field 1175
leaf area 1170, 1824
light intensity 3719
leaf area index, growth stages 1823
leaf water potential 430, 1171
leaves
abscission 5224-5225
growth regulators 7756
aerodynamic properties 8623
anatomy 6040
canopy
development, models 1823
distribution, models 1823
light, interception 6025
photosynthesis 1823
temperature 7753
composition
carotenoids 1822
chlorophyll 435
copper 7762
fatty acids 4536
flavonols 1187
iron 7762
manganese 7762
nitrogen 6029, 7762
estimation 435
phenols 1187
phosphorus 7762
proline 1827
proteins 4534
putrescine 1827
starch 4534, 8624
sugars 1187, 4534
tannins 1187
zinc 7762
cuticle
thickness 432
waxes 432
enzymes 1824, 3712, 4533-4534, 6029, 6035, 8616, 8618
growth 8622, 8627
temperature 7771
herbicides 6905
metabolism 4533
carotenoids 1822
ethylene 5224
organic acids 8106
removal 6895, 8613
respiration 8627
senescence 5224
stomatal resistance 2961, 8602
water stress 2330
temperature 8623
water content, estimation 564
water stress 432, 8622
light 8619, 8760
light intensity 2397, 3712, 3719, 4533, 6915, 8616

Cotton *cont.*
metabolism
cellulose 598, 2331
ethylene 6914
glucans 6031-6033
growth regulators 5225
organic acids 8106
potassium 3062
mineral nutrition 4650
aluminium 3066
boron 2386, 3550, 6908
deficiency 1190
calcium 5233-5234
foliar diagnosis 435
manganese 3550
nitrogen 7772, 8619
sources 1027
potassium 2320, 3062
zinc 3550
mineral uptake
boron 6908
calcium 1183
iron, siderophores 1189
magnesium 1183
nitrogen 1167, 5220, 6892
phosphorus 5220, 6892
potassium 3062, 5220, 6892
sulphur 7768
mulches 2317
plastic film 8611
multiple cropping
barley 4515
rice 513
mycorrhizas 3578
nitrification inhibitors 1179
pests
Amrasca biguttula biguttula 4532
Aphis gossypii 4532
Bemisia tabaci 1187
Earias 4532
Oxycorinus hyalinipennis 8615
Spodoptera littoralis 8613-8614
Tetranychus cinnabarinus 2960
Tetranychus truncatus 2960
petioles
anatomy 1190
composition, nitrogen 429
photoperiod 1195, 2964
photorespiration 1824, 8760
photosynthesis 1315, 2324, 6907
carbon dioxide 3712, 3817, 8616
carbon dioxide enrichment 8627
cultivars 2961
enzymes 8618
gas exchange 2325, 4533, 8760
growth regulators 7769, 8602
leaf age 7769
light harvesting complexes 1822
light intensity 3712, 4533, 8616
net assimilation rate 8602
photosystem II 8624
temperature 3712, 8616, 8624
water stress 2329-2330
models 5229
plant competition, weeds 1820, 4531
plant density 425, 1170, 2317, 3700, 5218, 6888, 7751, 8600
plant height 1184
pollen germination 1193
pollination 7075
pollution
cadmium 7942
cobalt 7942
precipitation 2964
protoplasts 6916
relative humidity 1826, 2964
relay cropping, rice 513
remote sensing 1947, 2965, 7957
identification 1342
respiration 8627, 8760
temperature 2331
root shoot ratio, water stress 1825
roots
bacteria, *Pseudomonas* 5358
cation exchange capacity 3066
composition
proteins 4534
starch 4534
sugars 4534
distribution 6043
irrigation 4519

Cotton *cont.*
roots *cont.*
distribution *cont.*
soil water 4519
growth 6043, 8625, 8628
irrigation 4519
models 6912
salinity 5233
soil water 4519
growth regulators 1192
hydraulic conductivity 3713
ion transport 3713
length 3066
measurement 7945
siderophores 1189
soil compaction 8793
temperature 8625
water stress 1192
water uptake, models 6912
rotations
fallow 4516
rice 7061
sorghum 4517, 6582
Trifolium alexandrinum 7744
Trifolium incarnatum 4516
Vicia faba 7744
Vicia villosa 4516
Vigna radiata 7061
wheat 1167, 1176, 4517, 7744
salinity 434, 1027, 1176, 1827, 3702, 4667, 5232-5234, 6027, 7005, 8141
seed aging 5226
seed certification, Colombia 3051
seed development 6038
temperature 4537
seed germination
defoliants 4520
enzymes 3716, 8617, 8619
factory effluents 8744
growth regulators 1824, 8141
salinity 8141
seed size 6034
seed treatment 1168, 6035
storage 5226
seed inoculation
Azospirillum 7773
Azotobacter 7773
seed production, Colombia 3051
seed quality 3720
delinting 4521
seed set, cultivars 431
seed size 6034
seed treatment
calcium chloride 427
growth regulators 1192
lasers 1168
potassium fluoride 6035
sodium fluoride 6035
solar radiation 3716
seedling emergence
seed treatment 1168
soil temperature 433
seedlings
composition
nitrogen 8619
nucleic acids 1194
proteins 1194
cotyledons, composition, proteins 4535
enzymes 6910, 8619
growth, soil temperature 433
growth regulators 1192
vigour 6034
water stress 1192
seeds
composition
gossypol 5227
lipids 4670
nitrogen 8619
nucleic acids 1194
oils 4670, 5220
proteins 1194, 4670, 5226, 6038-6039, 8617
cotyledons, composition, proteins 4535
desiccation 6038
enzymes 8617
metabolism
lipids 4670
oils 4670
proteins 4670

Cotton *cont.*
seeds *cont.*
storage 5226
vigour 5226
shading 8624
shoots
composition
calcium 3550
iron 3550
manganese 3550
nitrogen 3550
phosphorus 3550
potassium 3550
sugars 3550
zinc 3550
soil
erosion 3703
phosphorus 1180
potassium 1181, 2320
sodium 2320, 8626
soil amendments, gypsum 1818
soil compaction 1167, 5235, 8628, 8793
soil conditioners 3703
soil fertility 8628
soil inoculation
Azospirillum 7773
Azotobacter 7773
soil temperature 433, 8625, 8628
soil water 8628
soil water content 4531
solar radiation 2964
use efficiency 2328
sowing, comparisons, transplanting 4515, 7744, 7749
sowing date 433, 1169, 2315-2316, 4515, 4537, 5218, 6025, 6890-6891, 7744, 7748, 7750, 7907
cultivars 6889
sowing methods 433
sowing rates 2317
spacing 425, 2315, 2321, 3700, 4515, 4518, 6025, 6890, 7750-7751, 7760, 7765, 8600, 8603
stems
composition
proteins 4534
starch 4534
sugars 4534
stomatal movement
growth regulators 1191
temperature 1191
water stress 2329
stomatal resistance, light intensity 3719
temperature 1191, 1826, 2331, 2964, 3712, 3720, 4536-4537, 7771, 8616, 8624
heat sums 5231
tissue culture
composition, sugars 2963
culture media 2963, 6917, 7770
enzymes 2963
growth regulators 6036, 6917
metabolic inhibitors 3718
metabolism
amino acids 6036
cellulose 2331
organic acids 6036
proteins 6036
sugars 6036
ovules 2331, 3718
regenerative ability 6917
respiration 2331
temperature 2331
topping 6895
translocation
boron 6908
growth regulators 5225
models 7811
herbicides 6905
photosynthates 1823
transpiration 430, 1820, 2325
light intensity 3719
transplanting
comparisons, direct sowing 4515, 7744, 7749
date 4515, 7744
methods 7749
vegetative propagation, micropropagation 7770
vitamins, vitamin B complex 427
water conservation 427

Cotton *cont.*
water relations, measurement 6911
water requirements 7070
water stress 430, 1172, 1192, 1825, 2329-2330, 4519, 5229, 7772, 8622
growth stages 5228
water table 6042
water uptake 2397
water use 1171, 7907
water use efficiency 430, 1171, 2325, 2957, 7907, 8601, 8741
reviews 1191
weed control
cultivation 427, 1186, 2323
cultural control 2376
herbicides 427, 1186, 2323, 2376, 4530, 8611
manual weed control 427, 8611
mulches 8611
weeds
Abutilon theophrasti 1820
Alopecurus carolinianus 2376
Cardamine 2376
Cynodon dactylon 4531
Digitaria 1186
Echinochloa colonum 4530
Ipomoea 1186
Lamium amplexicaule 2376
Poa annua 2376
Stellaria media 2376
Trianthema portulacastrum 4530
yield components 4525, 8608, 8612
cultivars 2316
fertilizers 4523
irrigation 3702
yield correlations 4525, 6902
cultivars 2316
yield forecasting, remote sensing 3858
yields, trends, India 3803
Cover crops
barley 517-518
Calopogonium caeruleum 2264
Calopogonium mucunoides 2264
weed control 8522
Centrosema pubescens 2264
weed control 8522
cotton 4517
Crotalaria juncea 2264
cultivation, methods 517
mineral uptake, nitrogen 314, 518
Mucuna pruriens 2264
peas 6829
Phacelia tanacetifolia 518
Pueraria phaseoloides, weed control 8522
rape 517-518
rye 129, 314, 517-518, 5538
Sinapis alba 517-518
soyabeans 6829
triticale 518
Vicia faba 6829
wheat 314, 518, 4517, 5538
Cowpeas (*see Vigna unguiculata*)
Crambe
seeds, composition, fatty acids 6083
taxonomy 8681
Croatia, remote sensing 7956
Crop husbandry
books, UK 8826
Mongolia 1349
Crop management
agricultural meteorology 5365
books, models 4702
computer software, expert systems 5323
Crop production
books 6214
resource utilization, models 1347
spatial variation, reviews 8805
Cropping systems
books 6219
China, Shaanxi 4682
deserts, India, books 1370
dry farming, books 4705
India, books 5392
models 6131
monoculture 3101
Pakistan, Pakistan Punjab 7092
Peru 6134
reviews 4683, 6195
tropical zones, books 7985
West Africa 7378

Crops
Australia, books 8825
chemical composition, phenolic compounds 8820
***Crotalaria juncea*, intercropping, maize 6411**
Cucurbita pepo
seeds
composition
fatty acids 3760
phospholipids 3760
Cultivation, mechanization, books 7110
***Cuphea*, seeds, composition, fatty acids 6083**
Cuphea lanceolata
enzymes, esterases 8691
seed development, enzymes 8691
seeds, enzymes 8691
Cuphea wrightii
enzymes, esterases 8691
seed development, enzymes 8691
seeds, enzymes 8691
Cyamopsis tetragonoloba
agroforestry 378
cultivars
Australia, Northern Territory 7899
Maru Guar 8515
cultivation, ridging 3610
enzymes
catalase 5137
galactosidases 7687
oxidoreductases 5137
peroxidases 5137
transferases 7687
evaporation 5350
fungicides, mancozeb 7686
intercropping
Acacia nilotica var. *cupressiformis* 378
Pennisetum glaucum 8514
Ricinus communis 8736
sorghum 6585
irrigation 3440
factory effluents 5136
leaf water potential 8477
leaves
canopy, temperature 3440
composition
calcium 5136
chlorophyll 5136
fluoride 5136
magnesium 5136
phosphorus 5136
potassium 5136
sodium 5136
stomatal resistance 8477
metabolism, polysaccharides 7687
mineral nutrition, nitrogen 5137
mulches 8743
multiple cropping, *Cicer arietinum* 8743
nitrogen fixation, mineral nutrition 5137
nodules
enzymes 5137
metabolism, leghaemoglobin 5137
senescence 5137
photosynthesis
light intensity 8477
relative humidity 8477
precipitation 5350
relative humidity 5350
seed development
enzymes 7687
metabolism 7687
seed germination, seed size 5901
seed treatment, fungicides 7686
seeds
composition, galactomannans 2892
endosperm
enzymes 7687
metabolism, polysaccharides 7687
vigour 5901
solar radiation 5350
sowing date 7899
sowing methods 3610, 8743
temperature 5350
transpiration 8477
yield correlations 5350
Cyprus
reports, Agricultural Research Institute 7971
Vicia faba, cultivars 1049
Vigna unguiculata, cultivars 1725-1726
Czech Republic
fodder crops, yield correlations 8794
oats, yield correlations 8794
potatoes, yield correlations 8794
rye, yield correlations 8794
wheat
cultivars 6265-6266
yield correlations 8794
Czechoslovakia
barley, cultivars 736, 1468
climatic change, models 3847
potatoes, cultivars 4455
rye, cultivars 1607
triticale, cultivars 1607
wheat, cultivars 1402, 1607, 5435
Daylength (*see* Photoperiod)
Denmark
barley, cultivars 8758
fodder beet, cultivars 2384
Linum usitatissimum, cultivars 8758
maize, cultivars 2384
oats, cultivars 8758
Papaver somniferum, cultivars 8758
peas, cultivars 8758
potatoes, cultivars 1144, 2384
rape, cultivars 2384, 8758
rye, cultivars 8758
Sinapis alba, cultivars 2384, 8758
sugarbeet, cultivars 2384
triticale, cultivars 8758
Vicia faba, cultivars 2840, 8758
wheat, cultivars 8758
Developing Countries, remote sensing 7952
Dictionaries, agriculture 4708
Digitaria exilis
chemical composition 4650
fertilizers 4650
mineral nutrition 4650
***Dimorphotheca*, seeds, composition, fatty acids 6083**
Dioscorea
conferences 5372
cultivation, minimum tillage 8597
photoperiod 6021
soil compaction 8597
temperature 6021
tissue culture 6883, 6886
tubers
composition 2422
development 6021
storage
enzymes 2422
metabolism 2422
utilization 2422
Dioscorea alata
diseases, yam mosaic potyvirus 6882
enzymes, amylases 423
flowers, morphology 4510
growth regulators, ethephon 1163
metabolism, carbohydrates 423
shading 6887
tubers
composition, carbohydrates 2955
damage, temperature 423
enzymes 423
metabolism, carbohydrates 423
quality 423
storage, temperature 423
vegetative propagation, sprouting 4509
***Dioscorea esculenta*, shading 6887**
Dioscorea japonica
bulbils, sprouting 6018
enzymes, hydrolases 6017
growth regulators, gibberellins 6018
seed germination, growth regulators 6018
tubers
composition, carbohydrates 2955
dormancy 6018
enzymes 6017
growth regulators 6018
Dioscorea opposita
bulbils, growth regulators 6019
growth regulators, gibberellins 6019
tissue culture
buds 3696
explants 3696
tubers
composition
carbohydrates 2955
mannose 6020
proteins 7741
Dioscorea opposita* *cont.
tubers *cont.*
composition *cont.*
starch 7741
morphology, cultivars 7741
Dioscorea rotundata
growth regulators, gibberellins 422
tubers
sprouting, growth regulators 422
storage, sprout inhibition 422
treatment, growth regulators 422
vegetative propagation, sprouting 4509
***Dolichos lablab* (*see Lablab purpureus*)**
Drought
barley 3259, 4011, 6404, 8140, 8310
groundnuts 7577-7578, 7580
cultivars 2801
Hungary 8792
maize 3269, 5608-5609, 6329, 8074, 8200, 8310
models 8199
oats 5486
peas, reviews 6178
Pennisetum glaucum 2173
Phaseolus vulgaris 3564, 4347
reviews 6178
potatoes 5408
reviews 6178
remote sensing, France 2058
reviews 555, 1929
rice 4151
Romania 8791
rye 3999
sesame 6934
sorghum 8293
soyabeans 6642, 6674-6675
triticale 8073
Vicia faba, Poland 7628
Vigna unguiculata 4347
wheat 1378, 1431, 5408, 6329, 8073-8074, 8310
Triticum durum 8073
East Africa, fodder crops, books 4701
***Echinochloa colonum*, grain, composition, lipids 3456**
***Echinochloa esculenta*, taxonomy 1599**
Echinochloa frumentacea
cultivars, Pauza 2725
drought resistance 969
herbicides
alachlor 4969
linuron 4969
pendimethalin 4969
propazine 4969
simazine 4969
seed germination, herbicides 4969
seedling emergence, herbicides 4969
seeds, composition, elements 1327
Ecology, books 594
Egypt
cotton, cultivars 4523
maize, cultivars 1509
potatoes, cultivars 2936, 5184
remote sensing 7958
Eleusine coracana
agricultural meteorology 1598
carbon dioxide enrichment 3453
chloroplasts 8298
cultivars
India
Madhya Pradesh 261, 956
Uttar Pradesh 5706
Nepal 7049
energy relations 524, 3043
enzymes, nitrate reductase 6623
fertilizers
nitrogen 5705
application date 1597
NPK fertilizers 7049, 7480
residual effects 6138
organic fertilizers 7049
phosphorus
application methods 2176
sources 2176
green manures, *Albizia mollis* 7049
growth regulators
antibiotics 8298
auxins 8298
benzyladenine 3458
colchicine 8298

Eleusine coracana *cont.*
- herbicides
  - 2,4-D 4965
  - fluchloralin 4965
  - isoproturon 4965
  - methabenzthiazuron 4965
  - metoxuron 4965
  - oxyfluorfen 4965
  - residual effects 4965
- intercropping
  - *Amaranthus caudatus* 3442
  - maize 7049
- irrigation 3043
  - factory effluents 8744
- leaves
  - anatomy 8298
  - composition, proline 6623
  - development 8298
  - enzymes 6623
  - growth regulators 8298
- light intensity 3453
- mineral uptake, phosphorus 2176
- multiple cropping
  - potatoes 6138
  - soyabeans 3043
- photosynthesis
  - carbon dioxide 3453
  - gas exchange 3453
  - isotope fractionation 3453
- precipitation 1598
- roots, growth, soil compaction 4966
- rotations
  - *Lens culinaris* 5705
  - peas 5705
  - wheat 5705
- seed germination, factory effluents 8744
- seed inoculation, *Azospirillum lipoferum* 6623
- seed production 6188
- seed quality 6188
- seed testing 6187-6188
- seedling emergence
  - soil water content 7905
  - sowing depth 7905
- soil compaction 4966
- soil types 4966
- soil water content 7905
- sowing date 5706
- sowing depth 7905
- sowing methods 7480
- temperature 3453
- tissue culture
  - growth regulators 3458
  - regenerative ability 3458
- water stress 6623
- weather 1598
- weed control 7480
- yield correlations 1598
- yields 261

Energy relations, reviews 7967

Enzymes
- adenosinetriphosphatase, reviews 8776
- aspartate-ammonia ligase, reviews 4311
- glutamate-ammonia ligase, reviews 4311, 7419
- glutamate dehydrogenase 540
- glutamate synthase 540
- hydro-lyases, reviews 8779
- hydrolases 7933
  - reviews 4660
- lyases, reviews 7929
- malate dehydrogenase 1924
- nitrate reductase, assays, techniques 1418
- oxidoreductases 1923
  - techniques 2833
- oxygenases, reviews 545
- pectinesterase 7933
- peroxidases 7933
  - books 5388
  - reviews 4286
- phosphotransferases 1921
  - reviews 3821, 3823, 8635
- reviews 8775
- ribulose-bisphosphate carboxylase 4657
  - reviews 3825, 8778
- sucrose synthase, reviews 800
- superoxide dismutase, reviews 4661
- transferases, reviews 7927, 8777

Equipment
- cereals, harvesting 264
- growth chambers 8088

Equipment *cont.*
- subsoilers
  - maize 5717
  - soyabeans 5717

Eragrostis tef
- chemical composition, potassium 1600
- cultivars
  - Ethiopia 2727
  - DZ-CR-37 2727
- cultivation 4967
- fertilizers, potassium 1600
- mineral nutrition, potassium 1600
- multiple cropping
  - *Phaseolus vulgaris* 7901
  - potatoes 7901
- plant competition, weeds 44
- seed germination
  - salinity 4967
  - seed aging 4967
  - soil types 4967
  - sowing depth 4967
  - temperature 4967
  - water stress 4967
- soil, potassium, determination 1600
- soil types 1600
- undersowing
  - *Medicago polymorpha* 44
  - *Scorpiurus muricatus* 44
- weed control
  - cultivation 4967
  - herbicides 4967
  - manual weed control 4967
- weeds
  - *Medicago polymorpha* 44
  - *Scorpiurus muricatus* 44

Eruca vesicaria, cultivars, India, Haryana 1249

Eruca vesicaria **subsp.** ***sativa***
- allelopathy
  - *Pennisetum glaucum* 3076
  - sorghum 5345
- crop husbandry 1249
- cultivars, TMLC2 1248
- seed germination, allelopathy 3076, 5345
- seedlings, growth, allelopathy 3076
- tissue culture, growth regulators 3761

Ethiopia
- *Eragrostis tef,* cultivars 2727
- farming systems
  - books 1966
  - research 1966
- groundnuts, cultivars 8383
- wheat
  - cultivars 1997, 2018-2019, 2024
  - *Triticum durum,* cultivars 2018

Euchlaena mexicana *(see Zea mexicana)*

Euphorbia lagascae, seeds, composition, fatty acids 6083

Euphorbia lathyris
- harvesting date 7452
- seeds
  - composition
    - fatty acids 7452
    - oils 7452
- sowing date 7452

Europe
- green manures 3041
- maize
  - agricultural meteorology 7095
  - climatic change 2645
- remote sensing 2058
- rice, agricultural meteorology 7095
- wheat, agricultural meteorology 7095

European Communities
- potatoes, cultivars 3660
- remote sensing 7953

Evapotranspiration
- models 7939
- reviews 2373

Faba beans *(see Vicia faba)*

Fagopyrum **spp.** *(see* Buckwheat)

Farming systems
- alternative farming 8806
  - Germany 1345
- Australia 6196
  - New South Wales 6194
  - South Australia 6194
  - Victoria 6194
- books 4704
- Chile 4102
- dry farming 7912

Farming systems *cont.*
- dry farming *cont.*
  - books 2425
- Ethiopia
  - books 1966
  - research 1966
- Mali 4638
- nitrogen cycle 2405
- organic farming 2405, 7968
  - Netherlands 4686
  - potatoes 4458
  - Switzerland 7157
  - UK 6276
- reviews 4683, 6195
- shifting cultivation, Bhutan 7006
- sustainability
  - Indonesia 1908
  - reviews 7960
  - Taiwan 7090
  - tropics, books 1346
  - USA
    - New York 575
    - Pennsylvania 575
    - Virginia 574
- Sweden 7091
- Tanzania 4684
- taungya, South East Asia, books 1967
- tropical zones, books 7985

Fenugreek *(see Trigonella foenum-graecum)*

Fertilizers *(see also* specific elements and fertilizers, mineral nutrition and mineral uptake under specific crops)
- boron, reviews 1309, 2386
- conferences 4694
- Lithuania 7911
- magnesium, sources 1912
- Mali 4650
- manures 6141
- molybdenum, reviews 2383
- Niger 2379
- nitrogen 6141
  - India 7912
  - use efficiency
    - models 8009
    - reviews 1303
- NPK fertilizers, India 7912
- phosphorus 1305, 3055
  - Bolivia 4651
  - reviews 7060
- potassium 1305
- requirements, models 3276
- reviews 6183
- sulphur
  - Bangladesh 854
  - India 1308
  - Indonesia 1307
- Togo 2379
- trace elements, field experimentation, experimental design 1338
- use efficiency, models 3053
- zeolites, reviews 2378

Fibre flax *(see Linum usitatissimum)*

Fibre plants
- fertilizers
  - NPK fertilizers 8752
  - requirements 8752

Field experimentation
- border effects 3092
- experimental design 922, 1340, 2536, 4270, 6189, 7372
  - books 1968
  - fertilizers, trace elements 1338
  - techniques 83
- experimental plots 922
- plot size 922
- statistical analysis 1340, 4270
  - techniques 2403, 3093

Fiji, rice, cultivars 3394, 6557

Finger millet *(see Eleusine coracana)*

Finland, oats, cultivars 7226

Flowering, growth regulators, reviews 3830

Fodder beet
- chemical composition, lithium 549
- climatic change, models 1940
- cultivars
  - Austria 5966
  - Denmark 2384
  - Raudoniai 6846
- drainage 8807
- enzymes, sucrose synthase 3629, 8537

Fodder beet *cont.*
fertilizers
boron 5160
farmyard manure 1764, 5933, 8807
foliar application 1120, 5933
nitrogen 20, 3057, 5933
NPK fertilizers 1120, 1764, 5933, 8807
phosphorus 20, 5330
pig slurry 3057
potassium 5330
sewage sludge 1936
sulphur 20
trace elements 1120
growth regulators, ethamon 4665
herbicides
alloxydim 8534
chloridazon 5160, 8534
clopyralid 5160
diclofop 8534
ethofumesate 8534
isocarbamid 8534
lenacil 8534
metamitron 8534
phenmedipham 8534
thiobencarb 8534
insecticides, phosalone 5160
irrigation 133
sewage effluent 1911
mineral nutrition, diagnostic techniques 3063
mineral uptake
cadmium 1911
lead 1911
lithium 549
zinc 1911
Poland 1905
pollution
cadmium 1911
heavy metals 1936
lead 1911
zinc 1911
roots
anatomy 5934
composition
cadmium 1936
chromium 1936
copper 1936
lead 1936
nickel 1936
zinc 1936
enzymes 8537
rotations 8807
seedlings, anatomy 5934
soil
phosphorus 5330
potassium 5330
soil amendments, lime 5334
soil pH 5330
soil types, peat soils 7077
soil water 8807
soil water content 549
vegetative propagation, micropropagation 8540
water use 133
Fodder crops
altitude 8794
cultivars, Netherlands 6148-6149
East Africa, books 4701
soil fertility 8794
soil types 8794
yield correlations, Czech Republic 8794
Foxtail millet (*see Setaria italica*)
France
agricultural meteorology 4707
land use, remote sensing 8803
Linum usitatissimum
cultivars 7918
production possibilities 2332
maize, cultivars 2090
peas, cultivars 5044
Phaseolus vulgaris, cultivars 1062, 6747
potatoes, cultivars 2935, 5178
rape, cultivars 7918
remote sensing 7216
drought 2058
reports, Institut de Recherches pour les Huiles et Oléagineux 2411
soyabeans, cultivars 4220, 7918
sunflowers, cultivars 452, 4557, 7918
wheat, cultivars 8029
Frost resistance, reviews 7940
Fuel crops, production possibilities, UK 5321
Fungicides
allopurinol, wheat 2490
anilazin, wheat 1413
benomyl
barley 1395
groundnuts 1023
maize 824
peas 5042
Phaseolus vulgaris 4332
rye 4800
soyabeans 6659, 7527
Vicia faba 5819
wheat 614, 1395
bitertanol, barley 6381
boletin, sugarbeet 1132
captafol
barley 1457
sunflowers 1224
captan
Arracacia xanthorrhiza 4513
barley 1459
groundnuts 4273
maize 6440
peas 5042, 7615
Phaseolus vulgaris 4332
soyabeans 4211, 6636, 6659
carbendazim
barley 1457, 4008
peas 7615
rice 916
soyabeans 2756
sugarcane 500
sunflowers 1224
carboxin
barley 1459, 7247
maize 6440
wheat 606
chlorothalonil, *Arracacia xanthorrhiza* 4513
copper hydroxide, potatoes 1785
copper oxychloride
sugarbeet 1132
sunflowers 1845
copper oxyquinolate, wheat 5397
copper sulphate, *Vigna unguiculata* 3583
cyproconazole, barley 6380
diniconazole
barley 6379
wheat 6282
ethylmercury chloride, wheat 6222
fenbuconazole, barley 6379
fenpropidine, barley 6380
fenpropimorph
barley 6380
wheat 1413, 8042
flusilazole, barley 6380
flutriafol
barley 6379
wheat 606
fuberidazole, barley 1457
hexachlorobenzene
barley 1395
wheat 1395
iprodione, peas 5042
mancozeb
Cyamopsis tetragonoloba 7686
potatoes 1785, 5186, 5976
Vigna unguiculata 8463
wheat 13
maneb
barley 1457
peas 7615
Vigna unguiculata 3583
metalaxyl
barley 1459
peas 7615
potatoes 4450, 5976
rice 195
soyabeans 4211
metiram, potatoes 4450
organomercury fungicides, sugarbeet 1756
phenylmercury acetate, wheat 6222
prochloraz
barley 1457, 4008, 6380
wheat 8042
propamocarb, potatoes 1785
Fungicides *cont.*
propiconazole
barley 1459, 4008, 4815, 6380
wheat 13, 614, 1413, 3884, 6251, 7132, 8042
quintozene, barley 1459
SN-539865, barley 6379
tebuconazole
barley 6379-6380
wheat 606
thiabendazole
Arracacia xanthorrhiza 4513
potatoes 4450
wheat 606
thiophanate-methyl, *Phaseolus vulgaris* 4332
thiram
Arracacia xanthorrhiza 4513
barley 7247
maize 6440
peas 5042, 7615
Phaseolus vulgaris 4332
rice 916
sugarbeet 1756
sunflowers 1845
wheat 606, 6308
tolclofos-methyl, barley 1459
tolylfluanid, potatoes 1785
triadimefon
barley 1457, 2538
groundnuts 3515
sugarbeet 1132
wheat 13, 614, 1381, 1992, 4749, 8006
triadimenol
barley 1457, 1459, 6380-6381
rape 1861
wheat 606, 1413, 2026, 8044
tridemorph, barley 1457, 6380
zineb, *Vigna mungo* 4380
Gambia, maize, agroforestry 6415
Germany
agricultural meteorology 4707
barley, cultivars 3231, 7158
farming systems, alternative farming 1345
Linum usitatissimum
crop husbandry 7774
cultivars 2976
potatoes, cultivars 1774, 2926, 2934, 3658-3660, 4458, 5967
reports
Bundesforschungsanstalt für Landwirtschaft Braunschweig-Völkenrode 6198, 7972
Kuratorium, Technik und Bauwesen in der Landwirtschaft e.V. (KTBL) 8810
sugarbeet, cultivars 7694
sunflowers, cultivars 452
Vicia faba, cultivars 2840
wheat
cultivars 39, 1413, 6271, 7158
environmental factors 1429
yield correlations 1429
Glossaries
agronomy 3883
cell biology 3883
terminology 3883
Glycine max (*see* Soyabeans)
***Gossypium* spp.** (*see* Cotton)
Grain
maturation, reviews 3822
metabolism, reviews 3822
Grain crops, production, India, climate 4648
Grain legumes
conferences 8819
pests
Heterodera cajani 5145
Meloidogyne 5145
Pratylenchus 5145
Rotylenchulus reniformis 5145
rotations 5364
Greece
agricultural meteorology, books 599
remote sensing 7957
Green manures 263
Aeschynomene afraspera 7406
Africa 3041
Asia 3041
Astragalus 1904

Green manures *cont.*
Astragalus sinicus 3041
Azolla 1904
temperature 8234
Azolla caroliniana
enzymes, nitrate reductase 5322
mineral nutrition, nitrogen 5322
mineral uptake, nitrogen 5322
nitrogen fixation 5322
Azolla filiculoides
cells, composition, nitrogen 8731
leaves, composition, nitrogen 8731
symbiosis, *Anabaena azollae* 8731
Azolla japonica
leaves
composition
amino acids 1293
ammonia 1293
mineral nutrition, nitrogen 1293
roots
composition
amino acids 1293
ammonia 1293
Azolla pinnata
antibiotics 3802
enzymes, nitrate reductase 5322
fertilizers
cattle manure 1292
nitrogen 1292
NPK fertilizers 1292
phosphorus 1292
potassium 1292
mineral nutrition, nitrogen 5322
mineral uptake, nitrogen 5322
nitrogen fixation 5322
symbiosis, *Anabaena* 3802
Brazil 3041
buckwheat, sowing date 2372
Europe 3041
Japan 3041
Lablab purpureus 2576
Lathyrus tingitanus 7044
legumes, Japan 3040
Lens culinaris 7044
Lupinus albus, sowing date 2372
Medicago lupulina 1291
Medicago sativa 7044
sowing methods 7482
Mucuna 2576
Ornithopus sativus, sowing date 2372
peas 7044
Phacelia
fertilizers, nitrogen 7897, 7914
mineral uptake, nitrogen 7897
nitrification inhibitors 7914
sowing date 2372
rape
fertilizers, nitrogen 7897
mineral uptake, nitrogen 7897
sowing date 2372
Raphanus sativus var. *oleiformis*
fertilizers, nitrogen 7897
mineral uptake, nitrogen 7897
Sesbania 1904, 3041
Sesbania aculeata 6528
fertilizers
composts 2140
NPK fertilizers 2894
phosphorus 5641
sowing date 6480
Sesbania bispinosa, nitrogen fixation 2263
Sesbania cannabina, nitrogen fixation 2263
Sesbania rostrata 7406
fertilizers
NPK fertilizers 2894
phosphorus 7896
nitrogen fixation 5141
nodulation, stem nodules 1294
plant density 7896
sowing date 6480
Sesbania speciosa, nitrogen fixation 2263, 5141
Sesbania tetraptera, nitrogen fixation 2263
Sinapis arvensis, sowing date 2372
Spergula arvensis, sowing date 2372
sunflowers, sowing date 2372
Trifolium alexandrinum 1291, 2432
Trifolium pratense 1291

Green manures *cont.*
Trifolium pratense cont.
cultivars 4852
sowing methods 7482
Trifolium repens 1291
Trifolium resupinatum 1291
Trifolium subterraneum 1291
sowing date 2372
USA 3041
Vicia faba 7044
sowing date 2372
Vicia sativa, sowing date 2372
Vicia villosa 2432
Vigna unguiculata 6528
Groundnuts
agricultural meteorology, Taiwan 7961
agroforestry
India
Andhra Pradesh 6792
Bihar 6690
Tamil Nadu 6133
Malawi 8735
air pollution
acid rain 5036, 7583
ozone 5356
alley cropping 6792
Eucalyptus 6690
apical meristems, removal 5022
carbon dioxide enrichment 1938
cell cultures
composition
amino acids 8392
potassium 8392
proline 8392
sugars 8392
enzymes 313, 2817
peroxidases 5030
water stress 8392
cell membranes
plasma membranes
enzymes 5029
redox reactions 5029
water stress 8392
chemical composition 4650
chlorophyll 8385
nitrogen 3507, 5783
organic acids 8786
phosphorus 5783
potassium 5783
sulphur 5025
zinc 7934
chloroplasts, enzymes 3516
climatic change, India 1938
conferences 5375
continuous cropping 308, 763
crop husbandry
Malawi 8359
Namibia 8360
Tanzania 8361
Zambia 8362, 8366
Zimbabwe 8363
crop management, reviews 1014
cropping systems
Malawi 8359
Tanzania 8361
Zimbabwe 8363
cultivars 8385
Canada, Ontario 2818
classification 2821
Ethiopia 8383
India 6709
Andhra Pradesh 2810, 7562
Assam 7560
Maharashtra 7561
Rajasthan 6691
Kenya 8358
Nepal 3508
Niger 8380, 8398
Sri Lanka 8151
Swaziland 8384
Thailand 6701
USA
Texas 4279
Virginia 4280
ALG(E)57 2812
CSMG 84-1 4281
Daewontangkong 6702
ICGV 86590 3512, 8386
ICGV 87121 3510
ICGV 87160 3509, 3511
Namkwang Ttangkong 5028

Groundnuts *cont.*
cultivars *cont.*
Sayaka 2198
Sinkarzei 6703
TAG24 2814
TNAU 97 2813
VA-C92R 8387
Yuderakka 2199
cultivation
earthing up 5779
interrow cultivation 5779
no-tillage 763
ploughing 763
cutting date 8375
diseases
Corticium rolfsii 4284
Mycosphaerella arachidis 1023
Mycosphaerella berkeleyi 1023
Sclerotinia 8358
tomato spotted wilt tospovirus 8388
drainage 1019
drought 7577-7578, 7580
cultivars 2801
drought resistance 1674-1675, 7581
cultivars 6709-6710
energy requirements 4703
enzymes
amylases 1015
isocitrate lyase 1015-1016
nitrate reductase 8391
nitrogenase 3507, 7573
oxidoreductases 3516, 5029
peroxidases 313, 1015, 2817, 4286, 5030, 5388, 6707
phosphoric monoester hydrolases 4658
phosphotransferases 3516, 4658
triacylglycerol lipase 5040
farming systems
Burkina Faso 2195
Senegal 2195
West Africa 2195
fertilizers 4650
biogas slurry 6700
boron 2809
foliar application 8373
calcium
application date 7571
sources 7570-7571
farmyard manure 2805, 3507, 5026, 5779, 6700, 8382
filter cake 6700
iron 4278
application date 312
foliar application 312, 4285, 8367
sources 312
magnesium 5784
molybdenum 3507, 4278, 5038, 6698, 7584
nitrogen 1028, 3507, 4290, 5022, 5027, 5784, 6134, 6692, 6700, 7564, 7912, 8377, 8382
application date 2807
foliar application 4285
requirements 6696, 7936
sources 5026, 6695
NPK fertilizers 5779, 6135, 7056, 8379
residual effects 6138, 6699
sources 2806
phosphorus 311, 2655, 2804-2805, 2808, 3507, 5024, 5782, 5784, 6479, 6691-6692, 7059, 7565, 8377-8378, 8382
application date 2807
foliar application 5023
requirements 6696
residual effects 6699
sources 4652, 5023
potassium 5784, 8378
application date 2655
requirements 6696
reviews 1014
rice straw, residual effects 6699
slurries 5027
straw 7573
sulphur 311, 1020, 1308, 5341
foliar application 7572
sources 1913, 5025, 6697, 7572
trace elements 1020, 3507
foliar application 8373

Groundnuts *cont.*
fertilizers *cont.*
zinc 4278, 8381
sources 5026
field experimentation
data analysis 8398
experimental plots 8397
statistical analysis 8398
flowering, intercropping 6687
flowering date 4279
cultivars 6708
flowers
number, cultivars 6708
removal 5032
fungicides
benomyl 1023
captan 4273
triadimefon 3515
growth analysis 2818
growth regulators
Atonik 1666
auxins 1666
benzyladenine 2819, 6706
boric acid 8373
chlormequat 5022
cytokinins 1666
2,4-D 5033
ethephon 5031
gibberellins 1015, 5031, 5033, 5783, 8373
IAA 5033
maleic hydrazide 5033
NAA 4275, 8373
Paras Photosynth 4275
Photosynthogen 8373
Primovlar 1666
thidiazuron 2819
TIBA 5783
Vitaflor 1666
harvest index 2818
harvesting
damage 2803
machinery 2803, 8376
methods 1668
harvesting date 5021
harvesting losses 1018, 1667-1668, 3049, 7569, 8376
heat resistance, models 8398
herbicides
alachlor 1670
ametryn 1022
butachlor 1670
chlorimuron 1671
2,4-D 1670
2,4-DB 1671
fluazifop 2200, 2815
fluchloralin 1669, 2200, 3513, 3815
glyphosate 3815
metolachlor 6704
oxadiazon 1670, 2200
pendimethalin 2815, 6704
prometryn 1022
terbutryn 1669
toxicity 1671
India, Madhya Pradesh 7050
inoculation, *Rhizobium* 1028
insecticides
aldicarb 1672
DDT 566
phorate 8389
intercropping
Cajanus cajan 7688, 8367
Capsicum 2800
cassava 6134-6135
coconuts 7558
cotton 6686
Eucalyptus camaldulensis 8735
maize 1665, 6134, 8151, 8368
Pennisetum glaucum 3506
reviews 1014
rice 6479, 6823
Ricinus communis 5019
sesame 5019
sorghum 3411, 4643, 5781, 6687
soyabeans 7688
sugarcane 3784, 5326
sunflowers 1212, 2815, 4643, 5019, 5780, 6688-6689
tobacco 4593
Vigna mungo 3513
Vigna unguiculata 3513

Groundnuts *cont.*
irrigation 1332, 4275-4276, 4641, 6686, 6693, 7562, 7565-7567, 8373, 8383
cultivars 2801
factory effluents 8374
furrow irrigation 5782
growth stages 6694
reviews 1014
saline water 8748
sodic water 8748
sprinkler irrigation 5782
irrigation scheduling 6694, 7566, 8372
Kenya 8358
leaf area index 7577-7578
leaf water potential 7577
water stress 310
leaves
anatomy 2821
canopy, development 5785
composition
calcium 1115, 2820
chlorophyll 1024, 8373
insecticide residues 1672
magnesium 2820
nitrogen 2820
sugars 3516
development, light 3516
enzymes 3516, 8391
pH 5036
reflectance 7936
thickness 5917
light 3516
interception 6687, 6712
red light 6712
light intensity 5917
maturity stage, determination, techniques 5039
metabolism
amino acids 4285
carbohydrates 4658
chlorophyll 4285
enzymes 2817
iron 4285
nitrogen 4285
proteins 4285
mineral nutrition 4650
aluminium 2820, 3066
toxicity 1021
boron, deficiency 7691
calcium 1021, 2820, 7582
sources 7570
iron 4285
deficiency 1024
molybdenum 2816
nitrogen 4285, 8393
sources 1027
phosphorus 311
cultivars 3514
potassium 8393
sulphur 311, 1020, 2816, 5341
trace elements 1020
mineral uptake
calcium 566, 2806
nitrogen 539, 1027, 2806, 3507, 8385
phosphorus 311, 539, 2805-2806
potassium 539, 566, 1027, 2806
rubidium 566
sodium 1027
sulphur 311, 2806
mulches 5020
bitumen emulsions 5674
crop residues 2802
plastic film 5021
multiple cropping 7052, 7056
Cicer arietinum 7903
Coriandrum sativum 7903
Linum usitatissimum 7903
maize 6134, 6699
potatoes 6138
rice 6134
safflower 7903
sorghum 4641, 7903
sunflowers 4641, 7903
wheat 4640-4641, 8379
mycorrhizas 3578
nematicides
aldicarb 4283-4284
carbofuran 7575
nitrogen fixation 7573, 8151
mineral nutrition 2820
soil types 1028

Groundnuts *cont.*
nodulation 1754, 4290, 5038, 7573, 7584
fertilizers 4278, 5037
mineral nutrition 2820
nodules
composition
aluminium 7573
manganese 7573
molybdenum 7573
potassium 7573
enzymes 7573
morphology 1025
number 2820, 4290, 5037, 6823
size 4290
ultrastructure 1025
weight 2820, 5037
nutrient transfer, nitrogen, maize 8151
pest control, cultural control 1673, 4283-4284
pests
Ditylenchus destructor 6705
Meloidogyne arenaria 4283-4284
nematodes 5285
plant parasitic nematodes 1673
photosynthesis
light 3516, 5917
water stress 310
phytochrome 5034
plant competition, weeds 1750, 4282, 8799
plant density 310, 1017, 1212, 2197, 2655, 2818, 5780, 7056, 7564, 7688, 8369
models 309
pods
abscission, water stress 7580
development 4279
water stress 7578-7579
initiation, water stress 7579
maturity stage, determination, techniques 5039
phytochrome 5034
pollution, factory effluents 3517, 5787
precipitation 4289, 8383
production, constraints, Malawi 8364
relay cropping, cassava 6134
research, South East Asia 8365
respiration, light 3516
roots
cation exchange capacity 3066
depth 4288
growth 1021, 1675, 4288, 7582
measurement 8087
length 3066
respiration 1675
soil compaction 8793
rotations 539
Aeschynomene americana 4283
Cassia fasciculata 4283
rice 2374
soyabeans 4284
wheat 5025
row orientation 8368
salinity 1027, 1332, 8393
seed aging 1016
seed anatomy 2821
seed development 8390
seed dormancy 5031, 7576
seed germination 4287, 5781, 8390
calcium 4277
cultivars 7576
factory effluents 3517, 8374
insecticides 566
metabolism 4658
pH 7583
pollution, factory effluents 5787
processing 4274
seed aging 1016
seed treatment 1015, 4272-4273, 5031
soil compaction 8396
storage 5040, 7576
seed injury, processing 4274
seed inoculation
Bradyrhizobium 4290
Pseudomonas striata 2805
Rhizobiaceae 1754
Rhizobium 3508, 5027, 5037-5038, 6698, 7584, 8381
seed maturation 3518, 8390
seed production 5781

Groundnuts *cont.*
seed quality, processing 4274
seed size 4279
seed treatment
alcohol vapour 1015
calcium hydroxide 4272
cold water treatment 1015
fertilizers 7584
fungicides 4273
growth regulators 1015, 1666, 5031
hot water treatment 1015
hydrogen peroxide 1015
oxygen 1015
potassium nitrate 5031
soaking 4272, 5031
temperature 5031
seed weight 4279
seedbed preparation, mechanization 2196
seedling emergence
soil water content 7905
sowing depth 7905
seedlings
composition
chlorophyll 3517
starch 3517
sugars 3517
growth
factory effluents 5787
pollution 3517
seeds
composition
amino acids 2810
calcium 4277, 8378
elements 2810
fatty acids 3833, 5040, 5914, 6991, 7563, 7567
insecticide residues 1672
lipids 3832, 4670, 5040, 5914, 6991
magnesium 8378
nitrogen 5341, 8378
oils 4276, 4670, 5024, 5341, 5781, 7563, 7567, 7584
organic acids 8786
phospholipids 1016, 3833
phosphorus 8378
potassium 8378
proteins 1015, 2810, 4276, 4278, 4588, 4670, 5024, 5781, 7563, 7567, 8390
sugars 7563
sulphur 5341, 8378
trace elements 2810
density 1026
enzymes 1015-1016, 5040
growth 8390
imbibition 8396
metabolism
lipids 4670
oils 4670
proteins 4670, 8390
moisture content 1018, 1026, 5040
determination 2822, 3518, 4292, 7375
models 4291
physical properties 1026
provenance 7559
shape 1026
storage 1016, 5040
moisture content 8528
viability 4287, 5040
vigour 4277, 5040, 5781, 8390
processing 4274
shading 5917
shoots
composition
aluminium 7573
manganese 7573
molybdenum 7573
nitrogen 7573
potassium 7573
soil
aluminium 1115
calcium 4277
soil amendments
basalt 1024
gypsum 1115, 2197, 2807, 4277, 5779, 7571, 7574, 8380-8381
lapilli 1024
lime 1021, 1115, 2200, 2808, 7574-7575, 7582

Groundnuts *cont.*
soil amendments *cont.*
magnesian limestone 5784
pumice 1024
sand 5779
soil compaction 8396, 8793
soil conditioners 5674
soil pH 8394-8395
soil properties 6711
soil temperature 2802
soil types 1028, 6696, 7570
soil water 1332
soil water content 7905
solar radiation, use efficiency 5786, 7577
sowing date 1017, 1665, 2801, 4275, 6691, 6693, 7056, 7560, 7562-7563, 7567, 7907, 8370
cultivars 7561
sowing depth 7905
sowing methods 2197, 8367, 8377
sowing rates 309-310, 6689, 8369
spacing 1017, 1212, 5019, 6692, 7564, 7688, 8368-8369, 8371, 8377
stomatal movement 1030
submergence, models 3079
taxonomy 1029
temperature 5786
tissue culture 5035
explants 2819
growth regulators 2819
organogenesis 2819
somatic embryogenesis 2819
translocation
photosynthates 6706
source sink relations 7581
transpiration 3515
antitranspirants 7568
cultivars 7577
water stress 310, 2801, 7581, 8392
cultivars 6709, 7577-7580
growth stages 309
water table 1332
water use 310, 7566, 7907, 8370
water use efficiency 6693, 7566, 7907
weed control
cultivation 1669-1670
cultural control 1669, 2815
herbicides 1022, 1669-1670, 2200, 2815, 3513, 3815, 6704
integrated control 3815
manual weed control 1022, 1669-1670, 1750, 2815, 3513, 6704
reviews 1014, 8799
weeds
Eupatorium 3815
Imperata cylindrica 3815
Lantana camara 3815
yield components 308, 5781
cultivars 2811
yield correlations 5784, 8395
yields, trends, India, Tamil Nadu 6685

Growth
books 3116
carbon dioxide enrichment 2675
drought 555
growth regulators, reviews 1326, 3830
models 1325, 5988, 6170, 6191, 7931
books 600
oxygen, toxicity 5380
pests 1946
soil types, books 6214

Growth regulators
abscisic acid 555, 1918, 4662-4663, 6168, 8780
analogues 6396
barley 745, 1417, 1696, 2048, 2570, 2572, 3249, 3253, 4025, 4825, 6393, 6396, 6399, 8126, 8134
Brassica juncea 483, 6969
buckwheat 8704
Cicer arietinum 1101, 2256, 4395, 5119
cotton 1191, 3714, 6036, 7755-7756, 7769, 7811
Linum usitatissimum 4551, 4554
Lupinus luteus 5135
maize 803, 1532, 2622, 2626, 2638, 3310, 4093, 4882, 5589, 5594, 5837, 6172, 6456, 6458, 6467, 7358, 8174
oats 4797, 6342, 7226

Growth regulators *cont.*
abscisic acid *cont.*
Panicum miliaceum 4194
peas 326, 328, 1696, 5806, 7603, 8418
Phaseolus vulgaris 3563, 5837, 6753
potatoes 3668-3669, 4487, 5990
Psophocarpus tetragonolobus 4418
rape 6172, 6969, 8675
reviews 2389, 5837, 7922
rice 900-901, 921, 2573, 2683, 3377, 3391, 3400-3401, 4938, 4943, 5662, 6551, 6563, 8265, 8273
sesame 6926
sorghum 2707, 4964
soyabeans 291, 3488, 3493, 6172, 7542, 8344
sugarbeet 6841
sugarcane 5318
sunflowers 3743, 5265, 6172, 7811, 8174
tobacco 7867
Vicia faba 3540-3541, 5827, 7625, 7627, 8438
wheat 1417, 2044, 2048, 2495, 3947, 3950, 4765, 4768, 4771, 6172, 6315, 7189, 7201
Zizania palustris 2573-2574
AC-243,654, potatoes 5947
ACC 8780
barley 4829, 8136
cotton 5225
maize 8166
rice 2153, 3377, 3401
sugarbeet 4441
sunflowers 1847
tobacco 1890, 3022
wheat 4753
4-acetoaminophenolic acid, sugarbeet 2909
acetylcholine, wheat, binding proteins 5453
adenine, *Perilla frutescens* 7825
adenosine
barley 6174
maize 6174, 8176
peas 6174
rape 6174
reviews 6174
rice 6174
wheat 6174
Agrostemin
maize 4048
sunflowers 5261
amino acids
Cicer arietinum 3596
wheat 7192
2-aminobenzoic acid, sugarbeet 2909
aminooxyacetic acid, rice 3377
ancymidol
potatoes 4481, 8584
reviews 8782
rice 8782
soyabeans 8782
sunflowers 8782
wheat 8782
antibiotics, *Eleusine coracana* 8298
ascorbic acid
sesame 6925
sorghum 7443
soyabeans 5742
sunflowers 6951
wheat 1423
aspirin, sunflowers 5263
Atonik
groundnuts 1666
sugarcane 7877
ATP, maize 7310
auxins 546, 1326, 4668, 6169, 8780
Brassica juncea 7842
Cajanus cajan 8524
Cicer arietinum 1101, 6808
Eleusine coracana 8298
groundnuts 1666
maize 810, 8182, 8195
binding proteins 812, 5591, 5599, 8177
oats 1448, 3217
peas 1042
Perilla frutescens 7825
potatoes 2945, 5990

Growth regulators *cont.*
auxins *cont.*
reviews 1883, 4666, 7933
rice 3391
sorghum 943
soyabeans 1883, 8524
tobacco 1882-1883, 3771, 3774, 7001, 8701
Vicia faba 3540-3541, 3546, 7627
Vigna angularis 5865
Vigna unguiculata 8524
wheat 3947, 7129
AVG
peas 5807
rice 3391
Azoluron, rice 4896
barley 1467
BAS111W
maize 6172
rape 6172, 7820, 8675
reviews 8782
rice 8782
soyabeans 6172, 8782
sunflowers 6172, 8782
wheat 6172, 8782
benazolin, maize 808
benzimidazoles
cotton 4667
Phaseolus vulgaris 4667
rice 4896
sugarbeet 4667
wheat 4667, 4764
benzyladenine
Amaranthus caudatus 3783, 8131
Amaranthus cruentus 3783, 7014
Amaranthus hybridus 3783
Amaranthus hypochondriacus 3783
barley 116, 746, 3195, 3260, 6397, 8131
Brassica juncea 6984
Cajanus cajan 1091
Canavalia ensiformis 4409
cassava 5216
Cicer arietinum 1103
cotton 3550, 7755-7756
Eleusine coracana 3458
groundnuts 2819, 6706
Guizotia abyssinica 4579, 7834
Hibiscus cannabinus 1832
Hibiscus syriacus 1834
Lathyrus sativus 376
Linum usitatissimum 4552
Lupinus albus 4406
Paspalum scrobiculatum 3458
peas 1044, 5805, 5807
Phaseolus vulgaris 4342, 6756, 6760, 7646
potatoes 1799, 3677-3678, 5993, 7729
rape 2995-2996, 6972
rice 900, 3391, 7429, 7431
Ricinus communis 7784
Setaria italica 3458
sorghum 944, 4963
soyabeans 291, 1642, 3494, 4253, 4257, 5009, 6662, 8346
sugarbeet 4438, 7703
sunflowers 5267, 6960
sweet potatoes 4502
sweetcorn 1537
tobacco 1258, 2357, 4603, 7867, 8697
binding proteins 3020
triticale 2531
Vicia faba 3550, 7646
Vigna radiata 351, 2871, 4359-4360, 4362, 5857
wheat 62, 613, 2495, 2501, 3186-3187, 3195, 3955, 4765
Triticum durum 3186
books 2423
boric acid, groundnuts 8373
brassinolide
maize 3316
potatoes 5936
rape 3747
rice 900, 5658
brassinosteroids
peas 5804
rape 5804
reviews 3829

Growth regulators *cont.*
brassinosteroids *cont.*
rice 229, 3389, 5658, 7426
tobacco 7426
Vicia faba 1703
wheat 2495
caffeic acid, *Brassica juncea* 5283
carboxylic acids, maize 2624
casein hydrolysate, sweetcorn 1537
catecholamines
maize 494
tobacco 494
chlormequat
barley 1395, 1457, 3228, 5501-5502
Brassica juncea 6076
cassava 4504
Cicer arietinum 3598, 4396-4397
cotton 427, 3721, 6893, 6895, 7755-7756, 8603
groundnuts 5022
Linum usitatissimum 436, 3722, 5252-5253
maize 1522
potatoes 2944, 3677, 5186, 7729
rape 1226-1227
rice 4109
rye 4800
sesame 6932
sugarcane 503, 3791, 7022
sunflowers 5260, 6061
triticale 4005, 4805
Vicia faba 4324, 5069, 7626-7627
Vigna radiata 5096, 5856
Vigna unguiculata 354
wheat 19, 614, 674, 1381, 1395, 1423, 1991, 2450, 2739, 3136, 3184, 3191, 3884, 3891, 5407, 5409, 6281, 7119, 7130, 7190, 8006
chlormethylsilatrane, wheat 5455
chlorogenic acid, *Cicer arietinum* 1100
chlorpropham, potatoes 2307
choline chloride, wheat 674
chrysanthemic acid
Phaseolus vulgaris 1082
Vigna radiata 1082
cimectacarb
barley 8135
reviews 8782
rice 8782
soyabeans 8782
sunflowers 8782
wheat 8782
colchicine
Cicer arietinum 4396-4397
Eleusine coracana 8298
coumarin
potatoes 2944
Vicia faba 6740
cyanine dyes, potatoes 3635
cycloheximide, peas 8418
cytokinins 4668, 6169, 8780
Amaranthus caudatus 4870, 8131
barley 1476, 8131, 8732
buckwheat 8704
Cajanus cajan 8524, 8781
Cicer arietinum 1101, 1738
cotton 4667
groundnuts 1666
maize 4869-4870, 8781
oats 7226, 8781
peas 1044, 5054, 5807, 5810
Phaseolus vulgaris 3555, 4667
potatoes 413, 2945, 4481, 5408, 5990, 8590
rape 1862
reviews 8781
rice 4896, 4943, 5659, 6563
rye 95
sorghum 943
soyabeans 3487, 8343, 8524, 8732, 8781
sugarbeet 1120, 4667
sunflowers 8732
tobacco 493, 3771-3772, 5294, 8697
binding proteins 3020
Vigna radiata 4360
binding proteins 5097
Vigna unguiculata 8524
wheat 2044, 3187, 4667, 4764-4765, 5408, 7129, 7189, 8732

Growth regulators *cont.*
cytokinins *cont.*
wheat *cont.*
binding proteins 4763, 6312
Cytozyme
Cajanus cajan 8524
rice 6490
soyabeans 8524
Vigna unguiculata 8524
wheat 4723, 7129
2,4-D
barley 746, 1395, 6401
Cajanus cajan 1091
Cicer arietinum 1102
cotton 6894, 6917
groundnuts 5033
Guizotia abyssinica 4579, 7834
Hibiscus cannabinus 1832
Hibiscus syriacus 1834
Lablab purpureus 5904
Lens culinaris 5131
Linum usitatissimum 6051
maize 494, 808, 4082, 8182
peas 1042, 1044, 2210, 5805
rape 2996, 3747, 6972
rice 7429, 7432, 8261
sorghum 4963
soyabeans 1003
sugarbeet 4438
sugarcane 509, 5319
sunflowers 453, 6960
sweetcorn 1537
tobacco 494, 2357, 7001
triticale 2531, 3225
Vicia faba 1054
Vigna radiata 351, 4360
wheat 62, 679, 695, 1395, 1428, 2055, 3186, 3949, 3955, 4724
Triticum durum 679, 3186
daminozide
cotton 7755-7756
potatoes 8584
rape 4566
sugarbeet 1120
dicamba, maize 808
dihydrozeatin, tobacco 3771-3772, 8697
dihydrozeatin riboside, tobacco 3772
dimethyl sulfoxide
barley 6394
Cicer arietinum 3598
epibrassinolide
rice 3391, 5658
Vigna radiata 3575
wheat 1992, 2495
ethamon
barley 4665
fodder beet 4665
peas 4665
Phaseolus vulgaris 4665
potatoes 4665
soyabeans 4665
sugarbeet 4665
wheat 4665
ethephon
barley 726, 2540, 2739, 4829, 5500-5502, 7257, 7264, 8136
cassava 4504
cotton 8602
Dioscorea alata 1163
groundnuts 5031
Linum usitatissimum 436, 445, 3722, 5253
maize 5546
peas 8418
potatoes 5169, 5937, 6852, 8555
rape 1226, 7820
rice 1539, 4109, 8261
rye 2066, 4800
sorghum, sweet sorghum 1584
soyabeans 277, 5722
sugarbeet 5148, 5930
sugarcane 503, 1265, 2364, 4613, 7022, 7040
sunflowers 457, 1847, 1849, 6951, 7813
Vigna unguiculata 4367
wheat 25, 1991, 3191, 3894, 3899, 7128, 7190
ethylene 4668
barley 3246, 3455, 4829, 8136
books 2424

Growth regulators *cont.*
ethylene *cont.*
Cicer arietinum 4395
cotton 1827, 5224, 6914
inhibitors, *Vigna radiata* 4357
Lupinus angustifolius 5838
maize 494, 1520, 2126, 2623, 3315, 4866
oats 3246
peas 1694, 2217, 3535, 3537, 5807, 5809
Pennisetum glaucum 4191
Phaseolus vulgaris 4343, 5838, 6914
rice 900-901, 2153, 2681, 3377, 3401, 4919, 4932, 5650
rye 3455
soyabeans 2188
sugarbeet 4441
sunflowers 457, 1849, 6957
tobacco 494, 1881, 3021-3022, 7858
Vigna angularis 4379
Vigna radiata 1720, 3585
Vigna unguiculata 3585
wheat 3455, 4753
fenoprop, *Guizotia abyssinica* 4579
flurprimidol
Phaseolus vulgaris 1075
soyabeans 1075
folic acid, *Guizotia abyssinica* 7834
forchlorfenuron
barley 8732
Phaseolus vulgaris 7646
soyabeans 8732
sunflowers 8732
Vicia faba 7646
wheat 8732
fusicoccin
maize 4070, 8183-8184
oats 8096
peas 1693
Phaseolus vulgaris 3562
potatoes 5936
rice 2682
soyabeans 7531
Vicia faba 1054, 3548
wheat 3186
Triticum durum 3186
gibberellins 4668, 8780
Amaranthus caudatus 6101
barley 2079, 2565-2567, 3254-3255, 3385, 4026, 4825, 5532, 6393, 6398, 8133-8135, 8181, 8311
Brassica campestris 6067
Brassica juncea 6969, 6983
buckwheat 8704
Cajanus cajan 1091
Cicer arietinum 1101, 3596-3597, 5119, 6809
cotton 3550, 6036, 6917, 7755-7756
Dioscorea japonica 6018
Dioscorea opposita 6019
Dioscorea rotundata 422
groundnuts 1015, 5031, 5033, 5783, 8373
Linum usitatissimum 4551
maize 807, 1522, 2566, 8180-8181, 8185
oats 5483, 6344, 8311
peas 326, 1692, 1695, 2216, 4315, 5055-5056, 5806, 6729, 8418-8419
Pennisetum glaucum 4169
Perilla frutescens 7825
Phaseolus lunatus 1752, 5862
Phaseolus vulgaris 4933, 6753, 6756 binding proteins 6757
potatoes 1766, 1770, 3669, 4487, 5201, 5937, 5946, 5990
Psophocarpus tetragonolobus 4418
rape 2995, 3747, 5278, 6067, 6969
rice 900-901, 903, 2683, 3385, 3388, 3391, 4108, 4129, 4892, 4933, 8185, 8211, 8217, 8260-8261, 8311
Ricinus communis 7784
rye 713, 8311
sesame 6925-6926
sorghum 4165, 4169, 7443, 7468 sweet sorghum 1584
soyabeans 291, 2784, 3466, 3488, 3492, 4257, 7542

Growth regulators *cont.*
gibberellins *cont.*
sugarbeet 6841
sugarcane 4613
sunflowers 5267, 6960
tobacco 3771, 7867
Vicia faba 1703, 3541, 3550, 7627
Vigna radiata 4359
Vigna unguiculata 2253, 3586, 5862, 6779, 8473
wheat 666, 673, 1419, 1423, 2044, 3891, 3937, 3941, 3946-3947, 4723, 7120, 7191-7192, 7200
Xanthosoma sagittifolium 3697
Zizania palustris 2574
glyacil, potatoes 1800
glyphosate, sugarcane 7022, 8718
growth inhibitors
Amaranthus caudatus 3030
barley 745, 3809
maize 5593, 7357
oats 7662
peas 5803, 5807
potatoes 3809
rice 4931
Vigna angularis 7662
wheat 646, 3809, 3947
growth stimulators
rice 902
wheat 5454, 7191
humic acids, oats 8097
3-hydroxy-β-ionone, *Phaseolus vulgaris* 2865
IAA
Amaranthus caudatus 3783
Amaranthus cruentus 3783
Amaranthus hybridus 3783
Amaranthus hypochondriacus 3783
barley 746, 4026
Brassica juncea 6983-6984
buckwheat 8704
Cajanus cajan 8483
Cicer arietinum 1103, 3596, 5119
cotton 3550, 5225, 6036, 6917, 7755-7756, 7769
groundnuts 5033
Guizotia abyssinica 4579, 7834
Lens culinaris 5131
Linum usitatissimum 4551
Lupinus albus 2261, 7683
maize 494, 1532, 4070, 4081-4082, 4093, 5592, 6455, 8182, 8187 binding proteins 5591
oats 1448, 7662, 8096, 8098
peas 326-327, 1042, 1686, 1693, 2837, 3531, 3534, 3950, 5806-5808
Pennisetum glaucum 4169
Phaseolus vulgaris 2864, 3562, 4344, 5839
potatoes 1794
Psophocarpus tetragonolobus 4418
rape 3747, 6972
rice 900, 3391, 7432, 8220, 8252, 8254
sesame 6925-6926
sorghum 944, 4169
soyabeans 3493, 4257, 8343-8344
sugarcane 7040, 7887, 8717
sunflowers 1847, 2336
tobacco 494, 1891, 6094
triticale 2531
Vicia faba 1054, 1703, 3550, 3950, 4329
Vigna angularis 5865, 7662
Vigna mungo 4382
Vigna radiata 3575, 4359
Vigna unguiculata 2252
wheat 2044, 2495, 3891, 3945-3946, 3950, 4329, 4723-4724, 7192 binding proteins 3185, 8063
IBA
Cicer arietinum 1102-1103
Guizotia abyssinica 7834
Lens culinaris 5131
maize 5592, 8182
peas 1042
potatoes 1799, 5937
rice 7432
soyabeans 5009
tobacco 1258, 1891-1892

Growth regulators *cont.*
IBA *cont.*
Vigna radiata 351, 5098, 5857
inabenfide, rice 193, 838, 2660
Increcel, wheat 4723
isopentenyladenine
Lupinus albus 4406
rape 6972
rice 4943, 7431
isopentenyladenosine, cotton 7769
jasmonic acid
barley 4025, 5531
oats 8783
potatoes 5192, 5531, 5989, 8783
reviews 293, 5531
rice 1570, 6553
soyabeans 293, 2777, 5004, 7542, 8783
Kartolin, potatoes 6855
kinetin
Amaranthus caudatus 3783
Amaranthus cruentus 3783, 7014
Amaranthus hybridus 3783
Amaranthus hypochondriacus 3783
barley 115, 1479, 2079, 8141
Cajanus cajan 1091
Cicer arietinum 1102, 4396-4397, 5119, 6809
cotton 8141
Guizotia abyssinica 4579, 7834
Hibiscus cannabinus 1832
Hibiscus syriacus 1834
Lablab purpureus 5904
Lens culinaris 5131
Linum usitatissimum 4551
Panicum miliaceum 4194
peas 3534, 4315
Pennisetum glaucum 4169
Perilla frutescens 7825
potatoes 3677, 5937, 5993, 7729
rice 2686, 3389, 7431
sorghum 944, 4169, 4963-4964
soyabeans 291
sugarcane 4613, 5319, 7040
tobacco 1891, 3774, 7004
triticale 2531, 3225
Vigna radiata 5094
wheat 2501, 3126, 3891, 3894, 3946-3947, 7119
Triticum durum 3126
LAB-173711, sugarcane 5318
LAB-198-999, *Vigna unguiculata* 3586
MACC, barley 8136
maleic hydrazide
groundnuts 5033
rice 8261
sugarbeet 2909
sunflowers 6951
triticale 4808
Vigna unguiculata 354
mefluidide, maize 6468
mepiquat
barley 3228
cotton 430, 1192, 3704, 8603
Linum usitatissimum 5253
maize 5546
reviews 8782
rice 8782
soyabeans 8782
sunflowers 8782
wheat 3899, 8782
6-methoxybenzoxazolinone, maize 4869
Mixtalol
Brassica juncea 7840
cotton 1824
wheat 7129
monocarboxylic acids, rice 7427
monoethanolamine, barley 102
NAA
Amaranthus caudatus 3783
Amaranthus cruentus 3783
Amaranthus hybridus 3783
Amaranthus hypochondriacus 3783
Brassica juncea 6984
Cajanus cajan 1091
Cicer arietinum 1102
cotton 3707, 6892
groundnuts 4275, 8373
Guizotia abyssinica 4579, 7834
Hibiscus cannabinus 1832
Hibiscus syriacus 1834

Growth regulators *cont.*
NAA *cont.*
Lablab purpureus 5904
Lathyrus sativus 376
Lens culinaris 5131
Linum usitatissimum 4552
Lupinus albus 4406
maize 2623, 4082, 8182
binding proteins 808
peas 1042
rape 2995-2996, 6972
rice 2686, 3389, 7432
Ricinus communis 7784
sorghum 944
sweet sorghum 250
soyabeans 1003
sugarcane 5305
sunflowers 5260, 6951, 6960
tobacco 4603, 7004
Vicia faba 1054
Vigna radiata 351, 2871, 4360, 6764
Vigna unguiculata 4367, 6779
wheat 3948, 4724
NAD, maize 7310
naphthylphthalamic acid
maize, binding proteins 327
peas 327
oligosaccharides, potatoes 2944
paclobutrazol
Linum usitatissimum 5252
peas 1043, 1694, 4315
Phaseolus vulgaris 1075
potatoes 5169, 6852, 8584
rape 1226, 4566
reviews 8782
rice 198, 1540, 8782
soyabeans 1075, 3492, 8782
sugarbeet 5930
sugarcane 4612
sunflowers 8782
Vicia faba 4324
wheat 3126, 7119, 8782
Triticum durum 3126
Paras Photosynth
Cicer arietinum 3807
groundnuts 4275
Linum usitatissimum 3807
safflower 3807
sesame 3807
phaseic acid, barley 2570
phenolic acids, peas 6728
phenolic compounds 4668
barley 8132
Cicer arietinum 1100
Phaseolus vulgaris 1070
sunflowers 5261
Vigna radiata 4359
phosphonates, *Amaranthus caudatus* 1262
Photosynthogen, groundnuts 8373
piperidines, structure activity relationships 7074
platinum complexes, maize 5593
polyamines 4668
books 2424
Cicer arietinum 4395
maize 791, 6173, 8178
oats 6343
peas 6173
potatoes 4471
reviews 6173
rice 2153, 2681
soyabeans 5003
sunflowers 6957, 7813
tobacco 6173
wheat 5461
Polystimulin K
potatoes 5408
wheat 5408
Primovlar, groundnuts 1666
prohexadione
reviews 8782
rice 8782
soyabeans 8782
sunflowers 8782
wheat 8782
propham, potatoes 6003
putrescine, rice 921
pyridoxine, *Lens culinaris* 5128
pyrimidines
potatoes 1800
rape 7820

Growth regulators *cont.*
quinclorac, maize 808
reviews 8749, 8780
salicylic acid
Brassica campestris 1867
Brassica juncea 5283
Cicer arietinum 1100
potatoes 2943
reviews 3830
soyabeans 7542
tobacco 6092
seaweed products
barley 1927
maize 4871
potatoes 1927
sugarbeet 1927
wheat 1927
semicarbazones
maize, binding proteins 327
peas 327
silver nitrate, wheat 1428
sodium humate, wheat 11
steroids, wheat 3946
2,4,5-T
Brassica juncea 6983
Guizotia abyssinica 4579
tannins, *Brassica juncea* 5283
terbutryn, *Cicer arietinum* 3598
tetcyclacis
Phaseolus vulgaris 1075
reviews 8782
rice 8782
soyabeans 1075, 8782
sunflowers 8782
wheat 3126, 8782
Triticum durum 3126
tetracosanoic acid, tobacco 1252
thidiazuron
barley 6397
Cicer arietinum 5146
cotton 6917
groundnuts 2819
Lens culinaris 5146
peas 5146
Phaseolus vulgaris 7646
tobacco 4603
Vicia faba 7646
thiourea, potatoes 5937
TIBA
Brassica juncea 7842
groundnuts 5783
rice 3391
soyabeans 5723
sugarbeet 7703
sugarcane 7040
sunflowers 2336
Vigna radiata 3575, 6764
Vigna unguiculata 354
wheat 3947
triacontanol
barley 2079, 6174
Brassica juncea 7840
cotton 6892
maize 6174, 8176
peas 6174
rape 6174
reviews 6174
rice 6174, 6490
soyabeans 6644
sugarcane 7022
sunflowers 5261
tobacco 1252
wheat 4723, 6174, 7129
triapenthenol
rape 1225-1227, 5271, 7820
reviews 8782
rice 8782
soyabeans 8782
sugarcane 4612
sunflowers 8782
wheat 7119, 8782
triazoles
maize 6172
rape 1226, 1852, 4565, 5279, 6172
soyabeans 6172
residual effects 7504
sugarbeet 5930
sunflowers 6172
wheat 6172
uniconazole
potatoes 8584

Growth regulators *cont.*
uniconazole *cont.*
rice 4898-4899
Vitaflor, groundnuts 1666
xyloglucans, peas 6729
zearalenone, wheat 5452
zeatin
barley, binding proteins 4199
Cajanus cajan 1091
maize 2116, 4869
binding proteins 4199
peas 5054, 5810
Phaseolus vulgaris 8449
rape 6972
rice 4938, 4943
sorghum, sweet sorghum 250
soyabeans 4994
tobacco 3771-3772, 8697
wheat, binding proteins 4199
zeatin riboside
barley 1476
Linum usitatissimum 4554
maize 4093, 4869
peas 1042, 5054
rice 4943, 8265
tobacco 3771-3772, 8697
Growth stages, classification 5347
Guadeloupe, potatoes, cultivars 404
Guar *(see Cyamopsis tetragonoloba)*
Guatemala, sweet potatoes 8592
Guizotia abyssinica
chemical composition
nitrogen 7833
starch 7833
sugars 7833
conferences 5375
cultivars
India
Madhya Pradesh 7832
Orissa 6977
Nepal 3508
fertilizers
nitrogen 6977, 7830-7831
application date 8682
phosphorus 6977, 7830-7831
potassium 7830-7831
growth regulators
benzyladenine 4579, 7834
2,4-D 4579, 7834
fenoprop 4579
folic acid 7834
IAA 4579, 7834
IBA 7834
kinetin 4579, 7834
NAA 4579, 7834
2,4,5-T 4579
intercropping
Cajanus cajan 7829
Lens culinaris 1742
Macrotyloma uniflorum 4644
soyabeans 7829
Vigna mungo 4644, 7829
Vigna umbellata 7829
irrigation 1742
leaves
composition
chlorophyll 7833
elements 6071
organic acids 7833
phenolic compounds 7833
trace elements 6071
mulches, straw 1742
plant competition, weeds 8799
plant density 1238
roots
composition
elements 6071
trace elements 6071
seeds, composition, oils 1238-1239
sowing date 1238
spacing 1238
stems
composition
elements 6071
trace elements 6071
tissue culture
cotyledons 4579
culture media 4579, 7834
embryo culture 7834
embryogenesis 4579
growth regulators 4579, 7834

Guizotia abyssinica cont.
tissue culture *cont.*
regeneration 4579, 7834
weed control, reviews 8799
Hail
maize 816
potatoes 3680-3681
Harvest index, pests 1946
Harvesting, mechanization, books 7110
Hemp (*see Cannabis sativa)*
Herbicides
AC 263-222, soyabeans 988
acetochlor
buckwheat 7007
maize 3094
oats 3094
peas 3094
soyabeans 1624
acifluorfen
barley 2550, 5526
peas, binding sites 7608
soyabeans 273, 2764, 3477, 7524
aclonifen
peas 5969
potatoes 5969
adjuvants
cotton 6905
rice 875
soyabeans 1945
sunflowers 1945
Vicia faba 6280
wheat 1945, 6280-6281
alachlor
buckwheat 4969, 7007
Cajanus cajan 8482
Echinochloa frumentacea 4969
groundnuts 1670
maize 4969, 5574, 6438
Panicum miliaceum 4969
Pennisetum glaucum 4969
sesame 6931
Setaria italica 4969
sorghum 4969
soyabeans 987, 3474, 3815, 4232-4233, 6438, 7523, 8482
sugarcane 1283, 3796, 7033
sunflowers 1219
Vigna mungo 5871
alloxydim
fodder beet 8534
sugarbeet 8533-8534
wheat 42
ametryn
Cicer arietinum 6805
groundnuts 1022
sweetcorn 1943
amiprophos-methyl, wheat 1408
anilofos, rice 1544, 8242, 8245
application date, soyabeans 2763-2764, 6651
asulam, sugarcane 1285
atrazine
maize 772, 1511, 2579, 2590, 4848, 6438, 7337, 8038
oats 8408
peas 5796, 8408
Pennisetum glaucum 7475
Phaseolus vulgaris 2856
rice 7435
sesame 6931
soyabeans 2765, 4233, 6438
sugarcane 1280-1281, 1283-1285, 3796, 7033-7034
wheat 645, 2472
benazolin, rape 1859
bensulfuron, rice 3374, 4127
bentazone
peas 1680, 4296
rice 6538, 8243
sorghum 5684
soyabeans 2767, 3477
Vicia faba 1050-1051
Vigna unguiculata 5861
wheat 6281
benzoic acid, *Ricinus communis* 6920
benzthiazuron, sugarbeet 8533
binding proteins, wheat 2472
bromoxynil
barley 3240
rice 4132
soyabeans 1943

Herbicides *cont.*
bromoxynil *cont.*
wheat 2471, 4739
butachlor
groundnuts 1670
rice 875, 877-879, 897, 1544, 3815, 4126, 4128, 6539, 7413-7414, 8241-8242, 8245
Vigna radiata 3572
butylate
maize 3094
oats 3094
peas 3094
carbetamide, *Vicia faba* 1050
carriers, rice 875
CGA 214372, maize 802
chloramben
maize 6438
Phaseolus vulgaris 1067
soyabeans 6438
chloridazon
fodder beet 5160, 8534
sugarbeet 8533-8534
chlorimuron
groundnuts 1671
soyabeans 1626-1627, 2764
sugarbeet 2914
chlorotoluron, wheat 640, 1407, 2011, 2038
chlorpropham
safflower 2980
Vicia faba 1051
chlorsulfuron
barley 6376-6377
maize 3168
sugarbeet 2914
wheat 638, 2038, 3168, 4742
chlorthal-dimethyl, *Vigna unguiculata* 5861
cinmethylin, rice 4127
cinosulfuron, rice 4127
clethodim
soyabeans 2763
sunflowers 1220
clomazone
maize 1510, 2605
soyabeans 987, 2764, 2766, 4233
wheat 1408
clopyralid
fodder beet 5160
potatoes 3661
rape 1859, 4570
sugarbeet 8532
cyanazine
cotton 1186, 2376
soyabeans 4988
sugarcane 1285
Vicia sativa 2376
wheat 2376
cycloate, sugarbeet 4434
2,4-D
barley 2739, 5513, 6381
buckwheat 7007
cotton 6894
Eleusine coracana 4965
groundnuts 1670
maize 2106, 4965
peas 328
potatoes 3815
rice 881, 1544, 3371, 3373-3374, 3815, 4127-4128, 5647, 6539, 7386, 8245
sorghum 242, 2165
soyabeans 2765
sugarcane 1283-1285, 3797, 7033
sunflowers 242
wheat 614, 638-640, 1381, 1407, 2038, 2739, 3371, 3926, 5416, 6277
dalapon, sugarcane 1285
damage
barley 6376-6377
cotton 8612
potatoes 3661
rice 4131-4132
2,4-DB, groundnuts 1671
desmedipham, sugarbeet 3624
dicamba
barley 2739, 5513
oats 2739
sorghum 242

Herbicides *cont.*
dicamba *cont.*
sugarcane 1280, 1284
sunflowers 242
wheat 614, 638, 1381, 2035, 2739, 3884
dichlorprop
wheat 7997
Triticum dicoccon 7997
diclofop
barley 6378
fodder beet 8534
sugarbeet 8533-8534
wheat 637, 642, 2038, 2473, 3926
diethatyl
rape 4570
sugarbeet 4434
diflufenican
barley 2559
peas 2559
dimethachlor, rape 4570
dimethazone, soyabeans 7523
dinitramine
Brassica campestris var. *sarson* 8683
Brassica campestris var. *toria* 8683
rice 4128
dinoseb, *Vicia faba* 1707
diphenamid
tobacco 3765, 7857
Vigna unguiculata 5861
diphenyl ethers, barley 2550
diquat, potatoes 4450
diuron
barley 4821
cotton 427, 2376
safflower 2980
soyabeans 4821
sugarcane 1285, 3797
Vicia sativa 2376
wheat 1407, 2376, 6281
EPTC
maize 3094, 5574
oats 3094
peas 3094
rice 3373-3374
ethofumesate
barley 7593
fodder beet 8534
peas 7593
sugarbeet 4434, 8533-8534
fenchlorazole, barley 6378
fenclorim, rice 4127
fenoxaprop
barley 6378
rice 3374, 4127
sunflowers 1220
fenoxaprop-P, soyabeans 2763
fenuron, *Vicia faba* 1051
fluazifop
groundnuts 2200, 2815
maize 6279
sugarbeet 8532
sunflowers 1220, 2815
tobacco 3765
Vigna unguiculata 5861
wheat 6279
fluazifop-P
Cicer arietinum 8492
maize 6438
soyabeans 2763, 6438
fluchloralin
Brassica campestris var. *sarson* 8683
Brassica campestris var. *toria* 8683
Cajanus cajan 1090, 8286, 8482
Cicer arietinum 4391, 5121, 6805, 8492, 8801
Eleusine coracana 4965
groundnuts 1669, 2200, 3513, 3815
maize 4965
rice 1544, 5647
safflower 8801
sorghum 4174, 8286
soyabeans 987, 2756, 7523, 8482
tobacco 7857
Vigna mungo 5871
Vigna radiata 3572, 7653
wheat 8801
fluchloridone, buckwheat 7007
fluometuron, cotton 1186, 2323
fluorchloridone, sunflowers 1219

Herbicides *cont.*
fluroxypyr
barley 3166
Cicer arietinum 8492
maize 6437
wheat 640, 3166, 3926, 5429, 6277
fomesafen
cotton 4530
soyabeans 1624, 2764, 7524
glufosinate
maize 3069
potatoes 5970
rape 3745, 4571
Sinapis alba 3745
soyabeans 988, 3069
wheat 3069
glyphosate
Cicer arietinum 8492
groundnuts 3815
maize 3068, 3815, 8164
potatoes 3815
rice 3815
Ricinus communis 6921
soyabeans 988, 1943, 1945, 3068, 3815
sugarbeet 3768
sugarcane 1283, 3796, 4614, 7033-7034, 7886, 8718
sunflowers 1945
sweetcorn 1943
tobacco 3068, 3768
Vicia faba 8428, 8433
Vigna radiata 2248
wheat 639, 1945, 1974, 1976, 3068, 6281, 6295
haloxyfop
Cicer arietinum 8492
cotton 4530
soyabeans 2763
sunflowers 1220
wheat 42
hexazinone
maize 8802
Phaseolus vulgaris 8802
potatoes 8802
sugarcane 1282
wheat 8802
imazapyr
maize 8802
Phaseolus vulgaris 8802
potatoes 8802
wheat 8802
imazaquin
maize 2605
soyabeans 986, 1624, 1626-1627, 2764, 3478-3479, 4232, 4988, 6651
sugarbeet 2914
wheat 674
imazethapyr
Lupinus albus 1943
maize 2605
sugarbeet 2914
ioxynil, sugarcane 1285
isocarbamid
fodder beet 8534
sugarbeet 8534
isoproturon
Brassica campestris var. *sarson* 8683
Brassica campestris var. *toria* 8683
Cicer arietinum 8492
Eleusine coracana 4965
maize 4965
rape 6966
rice 881, 4897
sugarcane 7034
Vigna radiata 3572
wheat 43, 640, 644, 1407, 2739, 3926, 5416, 5431, 6222, 6277, 8038
isouron, rice 5651
isoxaben
peas 4656
Sinapis alba 4656
wheat 4656
lactofen, soyabeans 7524
lenacil
fodder beet 8534
sugarbeet 6836, 8533-8534
linuron
buckwheat 4969
Herbicides *cont.*
linuron *cont.*
cotton 2376
Echinochloa frumentacea 4969
Lupinus albus 1943
maize 4969
Panicum miliaceum 4969
Pennisetum glaucum 4969
potatoes 4465, 5184, 8567
rice 876
safflower 2980
Setaria italica 4969
sorghum 4969
soyabeans 1943, 2766, 4233, 4988
sunflowers 1219
sweetcorn 1943
Vicia sativa 2376
wheat 2376
MCPA
barley 3166, 5513
buckwheat 7007
oats 2739
peas 1680
sugarcane 3797
wheat 2035, 2471, 3166, 3884, 3926
mecoprop
barley 3166
buckwheat 7007
wheat 3166
metamitron
fodder beet 8534
sugarbeet 8534
metazachlor, rape 1859, 4570
methabenzthiazuron
Eleusine coracana 4965
maize 4965
sunflowers 1219
Vicia faba 2847
Vigna mungo 5871
methazole, cotton 6905
metobromuron, sunflowers 1219
metolachlor
Cajanus cajan 8286
groundnuts 6704
maize 1511, 2604, 5574
Phaseolus vulgaris 1067
potatoes 4465, 8567
sorghum 5684, 7469, 8286
soyabeans 987, 1624, 3477, 4988, 7523
sunflowers 1219
metoxuron
Cicer arietinum 8492
Eleusine coracana 4965
maize 4965
rice 881
metribuzin
Cicer arietinum 5121, 6805
potatoes 4450, 4465, 8567-8568
soyabeans 1624, 2764, 2766, 3474, 3477, 3479, 4231, 4233, 4988
sugarcane 1280, 1285
wheat 2472
metsulfuron
potatoes 3661
sugarbeet 2914
molinate, rice 875, 3374, 4127
monolinuron, potatoes 5970
MSMA, cotton 1186
napropamide
potatoes 5574
rape 4570
tobacco 3765
nicosulfuron, sugarbeet 2914
nitralin, rice 876
nitrofen
potatoes 3815
rape 4570
norflurazon, cotton 1186
oxadiazon
Brassica campestris var. *sarson* 8683
Brassica campestris var. *toria* 8683
groundnuts 1670, 2200
rice 875, 881, 3369, 3374, 4126, 4128, 6538, 8243
soyabeans 987, 3815, 7523
sunflowers 1218-1219
oxyfluorfen
Eleusine coracana 4965
maize 4965
rice 878, 881, 6539, 8242
Herbicides *cont.*
oxyfluorfen *cont.*
sugarcane 8728
sunflowers 1219
tobacco 7857
paraquat
maize 791, 2607, 5578, 5606, 8164, 8167
oats 4795
peas 4297
Phaseolus vulgaris 1066
rice 4128, 6550
soyabeans 988, 1943, 5729, 8330
sugarcane 1283-1285, 3796-3797, 7033
sweetcorn 1943
wheat 639, 6295
pendimethalin
buckwheat 4969
Cajanus cajan 1090, 3616
Cicer arietinum 5121, 6805, 8492, 8801
cotton 4530
Echinochloa frumentacea 4969
groundnuts 2815, 6704
maize 2106, 4969, 8165
Panicum miliaceum 4969
Pennisetum glaucum 4969
rape 6966
rice 875, 877, 881, 1544, 4128, 6538-6539, 8242-8243
safflower 2980, 8801
Setaria italica 4969
sorghum 4969
soyabeans 987, 1625, 7523
sunflowers 1218-1219, 2815, 8165
Vigna mungo 3616, 5871
Vigna radiata 3572, 3616, 7653
Vigna unguiculata 5861
wheat 8801
phenmedipham
fodder beet 8534
sugarbeet 3624, 6836, 8532-8534
wheat 6281
phosphonates, wheat 639
phosphonic acids, *Ricinus communis* 6921
phosphoric acid esters, barley 6391
picloram, peas 1701
piperophos, rice 6538, 8242
pretilachlor, rice 876, 881, 3373-3374, 4127, 6538, 8243
primisulfuron
maize 786, 2106, 2617
sorghum 5684
sugarbeet 2914
prometryn
cotton 2376
groundnuts 1022
potatoes 5185
Vicia sativa 2376
wheat 645, 2376
propanil, rice 879, 3374, 4128-4129, 4131, 7386
propaquizafop, soyabeans 2763
propazine
buckwheat 4969
Echinochloa frumentacea 4969
maize 4969
Panicum miliaceum 4969
Pennisetum glaucum 4969
Setaria italica 4969
sorghum 4969
wheat 645
propiconazole, wheat 25
propyzamide
rape 4570
safflower 2980
wheat 1405
pyrazosulfuron, rice 876, 3374
pyridate, soyabeans 1943
pyridine herbicides
cotton 1341
maize 1341
rice 1341
sorghum 1341
soyabeans 1341
wheat 1341
quinclorac
cotton 8612
rice 3374, 4127

Herbicides *cont.*
quizalofop
sugarbeet 8532
sunflowers 1220
residual effects
Cicer arietinum 8801
Eleusine coracana 4965
Linum usitatissimum 2978
maize 4965, 8802
Phaseolus vulgaris 8802
potatoes 3661, 8802
safflower 8801
sorghum 242
soyabeans 4233
sunflowers 242
wheat 5430, 8801-8802
sethoxydim
barley 2553
maize 1512, 4068
peas 1512, 4680
potatoes 4680, 6866
rape 4680
soyabeans 2763, 3477
sweetcorn 1943
tobacco 3765
Vicia faba 1050
simazine
barley 4821
buckwheat 4969
Echinochloa frumentacea 4969
maize 772, 2106, 4969
Panicum miliaceum 4969
Pennisetum glaucum 4969
potatoes 3815
rape 4570
Setaria italica 4969
sorghum 4969
soyabeans 3815, 4821
sugarcane 3797
Vicia faba 1050-1051
wheat 645
sulfometuron
barley 4821
soyabeans 4821
sulfonic acids, *Ricinus communis* 6921
surfactants
Vicia faba 6280
wheat 6280
TCA
potatoes 5185
rape 4570
sugarbeet 6836
tebuthiuron
maize 8802
Phaseolus vulgaris 8802
potatoes 8802
wheat 8802
terbuthylazine, *Vicia faba* 1051, 8426-8427
terbutryn
groundnuts 1669
Vicia faba 1051, 8426-8427
wheat 1407, 1981
thiazolidinone herbicides
peas 1409
wheat 1409
thifensulfuron
potatoes 3661
sugarbeet 2914
thiobencarb
fodder beet 8534
rice 881, 1544, 3369, 3374, 5647, 6538-6539, 7385, 7413-7414, 8241-8244
sugarbeet 8534
Vigna radiata 3572
tolerance
barley 6376-6378
maize 2604, 8802
Phaseolus vulgaris 1066, 8802
potatoes 8802
rape 1235
rice 4131-4132
soyabeans 1626-1627, 8330
sugarbeet 2914
wheat 4742, 5430, 8802
toxicity
barley 2768, 4821, 4989
groundnuts 1671
maize 2605
rice 897

Herbicides *cont.*
toxicity *cont.*
soyabeans 988, 1945, 2765-2768, 3479, 4233, 4821, 4989, 7524
sunflowers 1945
Vicia faba 1707
wheat 1945, 4739
tralkoxydim, wheat 640, 644, 4739, 6277
treflix, cotton 8611
tri-allate, wheat 641
triasulfuron
sorghum 5684
sugarbeet 2914
triazines, rape 1235
triazole herbicides, wheat 6295
triclopyr
cotton 8612
maize 8802
Phaseolus vulgaris 8802
potatoes 8802
rice 4131-4132
wheat 8802
tridiazuron, wheat 690
tridiphane
maize 6438
rice 8241
soyabeans 6438
trifluralin
Brassica campestris var. *sarson* 8683
Brassica campestris var. *toria* 8683
Linum usitatissimum 2978
Phaseolus vulgaris 1067
rape 4570
Ricinus communis 1944
soyabeans 1944, 3479
sugarcane 1281
sunflowers 1944
Vigna unguiculata 5861
wheat 1944
Hibiscus cannabinus
air pollution, ozone 441
cold resistance 1833
crop husbandry 7778
Israel 8631
cultivars
Australia, Northern Territory 6045
Nigeria 6919
Thailand 4544
USA, Oklahoma 7780
Minhong 82/83 1200
dry matter distribution 440
environment 3728
enzymes, acid phosphatase 7781
fertilizers
nitrogen 3724
NPK fertilizers 4544
phosphorus 3724
potassium 3724
flowering date 6045
growth
models 3725-3727, 6045-6046
salinity 1201
growth regulators
benzyladenine 1832
2,4-D 1832
kinetin 1832
NAA 1832
insecticides
carbofuran 4544
monocrotophos 4544
intercropping, grasses 439
irrigation 440
leaves
composition
calcium 1201
chlorine 1201
magnesium 1201
phosphorus 1201
potassium 1201
sodium 1201
development 3726
senescence 3726
photoperiod 1833, 3725
photosynthesis 6045
plant density 3726, 7779
precipitation, Australia, Northern Territory 6046
production possibilities
Australia 3725, 3727, 7778
Israel 8631
salinity 1201

Hibiscus cannabinus *cont.*
seed production 3728
seeds, composition, lipids 1831
sowing date 6046, 7779
sowing methods 4544
temperature 3725
tissue culture
growth regulators 1832
organogenesis 1832
water stress 441
water use efficiency 6045
yield components 7780
yield correlations 6919
Hibiscus sabdariffa
cold resistance 1833
photoperiod 1833
Hibiscus syriacus
cell culture
growth regulators 1834
protoplasts 1834
regeneration 1834
growth regulators
benzyladenine 1834
2,4-D 1834
kinetin 1834
NAA 1834
Hordeum (*see* Barley)
Hungary
agriculture, books 5391
drought 8792
irrigation requirements 8746
rape, cultivars 8677
rice, cultivars 4895
sunflowers, cultivars 452
wheat, cultivars 3918
Hydroponics
Phaseolus vulgaris 6762
potatoes, apparatus 5207
sweet potatoes, spacing 4495
wheat 6294
India
Andaman and Nicobar Islands, agroforestry 7093
Andhra Pradesh
Cajanus cajan, agroforestry 6792
groundnuts
agroforestry 6792
cultivars 2810, 7562
rice, cultivars 1549
sugarcane 7015
wheat, cultivars 8002
Arunachal Pradesh, sugarcane, cultivars 6109
Assam
groundnuts, cultivars 7560
sugarcane, cultivars 4628
barley, cultivars 2544
Bihar
Cicer arietinum, cultivars 8498
groundnuts, agroforestry 6690
Phaseolus vulgaris, cultivars 1060
potatoes, cultivars 5965
sesame, cultivars 8636
wheat, agroforestry 6690
Brassica juncea
cultivars 3001
yields, trends 3803
Cicer arietinum
cultivars 4393
yields, trends 3803
climatic change 1938
cotton
cultivars 4524, 5221-5222
yields, trends 3803
cropping systems, deserts, books 1370
fertilizers, sulphur 1308
grain crops, production, climate 4648
groundnuts, cultivars 6709
Gujarat, *Panicum sumatrense*, cultivars 955
Haryana
Brassica campestris var. *sarson*, cultivars 1249
Brassica campestris var. *toria*, cultivars 1249
Brassica juncea
agroforestry 6978
cultivars 1249
Eruca vesicaria, cultivars 1249
rice, cultivars 6532
sugarcane, cultivars 7028, 8716

India *cont.*
Haryana *cont.*
wheat
agroforestry 6228
cultivars 1424, 5427
Triticum durum, cultivars 1424
Himachal Pradesh
peas, cultivars 5790
wheat, cultivars 8019
Indian Punjab
Pennisetum glaucum, cultivars 5699
potatoes, cultivars 5964, 6865
sugarcane, cultivars 1269, 1272
wheat
agroforestry 1972
cultivars 1398, 2452
Karnataka
agricultural meteorology, temperature 3863
rice, cultivars 8263
sorghum, cultivars 5679
soyabeans, cultivars 7502
temperature, heat sums 2393
Vigna radiata, cultivars 3590
Kerala
rice, cultivars 6498
sweet potatoes, cultivars 6005
Vigna mungo, cultivars 7663
Vigna unguiculata, crop husbandry 8463
Linum usitatissimum, cultivars 1209-1210
Madhya Pradesh
Brassica juncea, cultivars 3000, 8685
Cajanus cajan
cultivars 2255
yields, stability 6795
Cicer arietinum, cultivars 1098
cotton, cultivars 2321
Eleusine coracana, cultivars 261, 956
groundnuts 7050
Guizotia abyssinica, cultivars 7832
Lens culinaris, cultivars 8504
Panicum sumatrense, cultivars 261
Paspalum scrobiculatum, cultivars 261
rice, cultivars 7410
sesame 7050
soyabeans 7050
cultivars 7513, 8318
sweet potatoes, cultivars 3688
Vigna mungo 7050
Vigna radiata 7050
cultivars 5846
Maharashtra
agricultural meteorology 6562
cotton, cultivars 7747, 8600
groundnuts, cultivars 7561
precipitation 6562
rice, cultivars 6483, 6515, 6531
sorghum, cultivars 2164, 4167, 5676, 8280
soyabeans, cultivars 4215
sugarcane, cultivars 1271
sunflowers, cultivars 6948, 8650
maize
agricultural meteorology 7095
yields, trends 3803
Meghalaya
maize, cultivars 6412
potatoes, cultivars 7712
Nagaland
rice, cultivars 5648, 6499
soyabeans, cultivars 6639
oilseed plants, books 6212
Orissa
Guizotia abyssinica, cultivars 6977
rice, cultivars 6482, 6558
soyabeans, cultivars 4226
wheat, cultivars 1400
plant nutrition, sulphur 1308
potatoes
bibliographies 5212
cultivars 6864
seed tubers, production 5949
Psophocarpus tetragonolobus, cultivars 4416-4417
Rajasthan
barley, cultivars 5507
Brassica juncea, cultivars 6076
groundnuts, cultivars 6691
maize, cultivars 7331
India *cont.*
rape, yields, trends 3803
reports
Central Potato Research Institute 1352
Central Research Institute for Dryland Agriculture 1354
Central Tobacco Research Institute 6199-6200
Central Tuber Crops Research Institute 6201
Directorate of Rice Research 1355
Indian Agricultural Research Institute 6202
rice
agricultural meteorology 7095
crop husbandry 5618
cultivars 862, 1550
yields, trends 3803
safflower
cultivars 1841
Maharashtra 6944
sesame, cultivars 1207-1208, 2974
Sikkim, rice, crop husbandry 6477
sorghum, cultivars 2163, 2705
soyabeans
crop husbandry 973, 8313
cultivars 985, 1621
sugarcane
crop husbandry 8706
cultivars 1897, 4624, 5308
yields, trends 3803
Tamil Nadu
cotton, agroforestry 6133
groundnuts
agroforestry 6133
yields, trends 6685
maize, agroforestry 6133
rice, cultivars 8227
sesame, agroforestry 6133
sorghum, agroforestry 6133
soyabeans, agroforestry 6133
sugarcane, cultivars 1270, 5303, 5307, 7020, 8723
sunflowers, agroforestry 6133
Vigna mungo, agroforestry 6133
Vigna radiata, agroforestry 6133
Vigna unguiculata, agroforestry 6133
Uttar Pradesh
Brassica juncea, cultivars 1872, 6847, 7841
cropping systems 8808
Eleusine coracana, cultivars 5706
Phaseolus vulgaris, cultivars 7629
potatoes, cultivars 3637, 8559
rice
books 5382
cultivars 3360, 3363
sorghum, cultivars 7447
sugarcane, cultivars 1273, 4629
triticale, cultivars 4002
Vigna unguiculata, cultivars 8465-8466
Vigna unguiculata, cultivars 2893
West Bengal
Linum usitatissimum, cultivars 8642
rice, cultivars 3392
wheat, cultivars 7147
wheat
agricultural meteorology 7095
cultivars 635, 2023, 3154
yields, trends 3803
Indian mustard (*see Brassica juncea*)
Indonesia
farming systems, sustainability 1908
fertilizers, sulphur 1307
groundnuts, soil pH 8394
plant nutrition, sulphur 1307
potatoes, seed tubers, production 2921
reports, Indonesian Sugar Research Institute 8811
rice, cultivars 863, 3393
sugarcane
crop husbandry 1263
cultivars 4630, 5309-5312, 6120
Insecticides
acephate, soyabeans 4235
aldicarb
groundnuts 1672
sorghum 1672
sugarbeet 4434
Insecticides *cont.*
aldrin, wheat 1970, 6222
BHC, *Cajanus cajan* 3591
carbaryl
soyabeans 288
Vigna unguiculata 3583
wheat 4759
carbofuran
Hibiscus cannabinus 4544
rice 1541, 6496, 8220, 8248
sorghum 4957
soyabeans 5013
sugarbeet 4434
Vigna radiata 5093
carbosulfan, soyabeans 5013
chlorpyrifos
cotton 7767
soyabeans 2795
sugarbeet 4434
sugarcane 1286
cyfluthrin
soyabeans 4235
Vicia faba 2843
cypermethrin
barley 1457
cotton 4532, 7767
soyabeans 3481
Vicia faba 2843
DDT
barley 566
Cicer arietinum 365
groundnuts 566
maize 365
oilseed plants 566
rice 365, 566
Vigna radiata 566
deltamethrin
potatoes 8576
soyabeans 3481
wheat 1381
demeton, soyabeans 5013
demeton-S-methyl, wheat 3884
diazinon, rice 1541
dimethoate
soyabeans 3480
sugarcane 1286
wheat 614, 8042
endosulfan
Cajanus cajan 3591
cotton 4532
rice 1541
soyabeans 7496
sugarcane 1286
Vigna mungo 4380
Vigna unguiculata 1727
wheat 5394
etofenprox, cotton 7767
fenvalerate
cotton 2874, 4532, 7767
rye 4800
soyabeans 3481
Vicia faba 2843
Vigna unguiculata 2874
flutolanil, potatoes 1147
fluvalinate, *Vicia faba* 2843
fonofos, sugarbeet 4434
HCH
Cajanus cajan 1736
Cicer arietinum 365, 1736, 8486
maize 365
rice 365, 8252
lambda-cyhalothrin, soyabeans 4235
lindane
rice 8252
soyabeans 2795
malathion
maize 2617
soyabeans 288
sugarcane 1286
Vigna unguiculata 1727, 3583
methyl bromide
barley 6625
oats 6625
wheat 6625
monocrotophos
cotton 4532, 7767
Hibiscus cannabinus 4544
soyabeans 5013, 6653-6654, 7496
Vigna radiata 5093
Vigna unguiculata 1727
neem extracts, *Vigna unguiculata* 1727

Insecticides *cont.*
parathion-methyl
sugarcane 1286
wheat 1381
pencycuron, potatoes 1147
pentachlorophenol, barley 6381
permethrin, peas 3524
phorate
groundnuts 8389
potatoes 5981
rice 8220, 8248
soyabeans 5013, 6653
Vigna radiata 5093
phosalone, fodder beet 5160
phosphamidon
soyabeans 3480
Vigna unguiculata 8463
phoxim, wheat 1381
pirimicarb
cotton 2874
Vigna unguiculata 2874
propamocarb, potatoes 1147
quinalphos, soyabeans 3481, 6652
residues, potatoes 5981
tefluthrin, wheat 5397
terbufos, sugarbeet 4434
tolclofos-methyl, potatoes 1147
tralomethrin, soyabeans 4235
Intercropping
Amaranthus caudatus 3442
Amaranthus cruentus 6947
barley 702, 719, 957, 2375, 3042, 3045, 4515, 5126, 5498, 8485
Brassica campestris var. *sarson* 4716, 8683
Brassica campestris var. *toria* 8683
Brassica juncea 516, 2361, 2882, 3120, 3805, 6847, 7055, 7710, 7989-7990, 8485, 8742
Cajanus cajan 448, 1732, 2255, 2881, 3411, 3593, 4164, 4184, 4385-4386, 4593, 4642, 4649, 5112-5113, 5673, 5876-5877, 6136, 6585, 6790-6791, 7294, 7688, 7829, 8286, 8322, 8367, 8482, 8741
cassava 1161, 1211, 2310, 2313, 3580, 4504, 6134-6135, 8735
cereals 2746
Cicer arietinum 516, 1844, 2361, 2882-2883, 3120, 3785, 3807, 5297, 5882, 6801, 6804, 7054-7055, 8485, 8709-8710, 8739
cotton 2874, 3699, 4515, 5716, 6686, 7498, 7745-7747, 8737, 8741
Crotalaria juncea 6411
Cyamopsis tetragonoloba 3032, 5698, 6585, 8514, 8736
Eleusine coracana 3442, 7049
groundnuts 1212, 1665, 2800, 2815, 3411, 3506, 3513, 3784, 4593, 4643, 5019, 5326, 5780-5781, 6134-6135, 6479, 6686-6689, 6823, 7558, 7688, 7747, 7875, 8151, 8367-8368, 8735
reviews 1014
Guizotia abyssinica 1742, 4644, 7829
Hibiscus cannabinus 439
Lablab purpureus 8740
legumes 2746
Lens culinaris 1742, 2361, 3120, 3602, 5126, 7055
Linum usitatissimum 4-5, 2882, 3120, 3807, 7054, 7991, 8485, 8646
Lupinus angustifolius 1297
Macrotyloma uniflorum 4644, 8736
maize 128, 514, 754-755, 1296, 1665, 2310, 2361, 2575-2576, 3447, 3580, 3699, 3805-3806, 4036-4042, 5707, 6134, 6136, 6411-6414, 7049, 7294, 8151, 8368, 8443, 8735, 8739-8740
Medicago sativa 2375
models 2644
oats 702, 719, 957, 1297, 2201, 2375, 7222, 8740
Panicum sumatrense 5704
peas 1297, 2201, 2375, 2575, 3042, 3045, 3120, 8710
Pennisetum glaucum 352, 1592, 2717, 3447, 3506, 3580, 4184, 5103, 5698, 5707, 6584, 6780, 7472, 8514, 8741
Intercropping *cont.*
Phaseolus vulgaris 337, 755, 931, 2363, 2575, 4038, 4041-4042, 4448, 5829-5830, 8443, 8710, 8735
potatoes 3805, 4448, 5830, 6414, 6847, 7710, 8547
Psophocarpus tetragonolobus 128
rape 8742
reviews 576
rice 353, 879, 1296, 2310, 5112, 5867, 6134, 6479-6480, 6528, 6823, 8636
Ricinus communis 5019, 6047, 8736, 8745
rye 957, 7243
safflower 2882-2883, 3120, 3807, 4040, 5882, 6136, 6227, 6801, 6804, 7054, 8485, 8646
sesame 2800, 3806-3807, 4593, 5019, 8636, 8741
Sesbania aculeata 6480, 6528
Sesbania rostrata 6480
sorghum 931, 3411, 3447, 3580, 4164, 4386, 4642-4643, 4956, 5673, 5675, 5707, 5781, 6584-6585, 6687, 7471, 8279, 8286, 8464, 8739, 8741
soyabeans 514, 1296, 2310, 3411, 3785, 4037, 4039, 4593, 4649, 5297, 5395, 5716, 6106, 6790-6791, 6823, 6946, 7498, 7688, 7745-7746, 7829, 8279, 8322, 8482, 8709, 8740, 8745
Stylosanthes fruticosa 2717
Stylosanthes hamata 2717
sugarcane 337, 2361, 2363, 3032, 3784-3785, 3805, 5297, 5326, 6106, 7016-7017, 7875, 8547, 8708-8710
sunflowers 448, 1211-1212, 1844, 2815, 3784, 4184, 4642-4643, 5019, 5326, 5780, 6688-6689, 6946-6947
sweet potatoes 6005
sweetcorn 4886
tobacco 4593
Trigonella foenum-graecum 3121
triticale 7243
Vicia faba 1297, 7616
Vicia sativa 7222
Vigna mungo 1732, 3411, 3513, 3614, 3784-3785, 3806, 4036, 4644, 5297, 5326, 5675, 5704, 5867, 6823, 7829, 8709, 8737, 8741, 8745
Vigna radiata 514, 754, 1592, 3593, 3614, 3784, 3806, 4385, 4642, 5113, 5326, 5876-5877, 6047, 7747, 8737
Vigna umbellata 6412, 6823, 7829
Vigna unguiculata 352-353, 2363, 2874, 3032, 3513, 3580, 3614, 4593, 5103, 6135, 6411, 6528, 6585, 6780, 7471, 8464, 8736, 8739, 8745
wheat 4-5, 516, 957, 1972-1973, 2181, 2361, 2432, 3045, 3120-3121, 3602, 3805, 4716, 5395, 6227, 7989-7991, 8485, 8739, 8742
Triticum durum 3121
Ipomoea batatas (*see* Sweet potatoes)
Iran
barley, cultivars 3234
potatoes
climate 5198
production possibilities 5198
Irish Republic
agricultural meteorology, books 3118
reports, Teagasc 8812
Irradiation, ultraviolet radiation, reviews 3078
Irrigation
Amaranthus cruentus 3782
barley 102, 4007, 5497-5500, 7249, 7252, 7287, 8125
Brassica campestris var. *sarson* 6073
Brassica campestris var. *toria* 479, 1240, 6072
Brassica juncea 516, 1240, 1242-1243, 1868, 1871, 3001, 4443, 6074, 6985, 7837-7839
fertigation 6077
growth stages 1869-1870
Brassica nigra 3043
Cajanus cajan 361-362, 1090, 6794
cereals 8747
Cicer arietinum 516, 1096, 4641, 5883, 6137, 6804
Irrigation *cont.*
Cicer arietinum cont.
channel irrigation 363
flood irrigation 363
growth stages 5884
requirements 7070
cotton 426, 1173, 1175, 2317, 2957, 3704, 4519, 6686, 7772, 8601
cultivars 3702
drip irrigation 1171
factory effluents 8744
fertigation 6030
flood irrigation 1171, 3701, 6026
furrow irrigation 1174, 1177, 3701, 4517, 6026
growth stages 1171, 3702
requirements 7070
saline water 1176, 3702, 6027, 8748
sodic water 8748
sprinkler irrigation 1172, 2958, 3703, 6026, 7754
trickle irrigation 1177, 7753
Cyamopsis tetragonoloba 3440
factory effluents 5136
Eleusine coracana 3043
factory effluents 8744
fodder beet 133
sewage effluent 1911
groundnuts 1332, 4275-4276, 4641, 6686, 6693, 7562, 7565-7567, 8372-8373, 8383
cultivars 2801
factory effluents 8374
furrow irrigation 5782
growth stages 6694
reviews 1014
saline water 8748
sodic water 8748
sprinkler irrigation 5782
Guizotia abyssinica 1742
Hibiscus cannabinus 440
Lens culinaris 1107, 1742, 6137, 6814, 7674-7676
Limnanthes alba, growth stages 6081
Linum usitatissimum 7797
factory effluents 4647
growth stages 3734, 5251
water use efficiency 3734
Lupinus albus, sprinkler irrigation 1108
maize 133, 523, 768-769, 1496, 2090, 3268-3271, 3804, 4049-4050, 4844-4845, 5548, 5550, 5552, 6414, 6420, 6422-6423, 7305
basin irrigation 770
centre pivot irrigation 7309
factory effluents 5549, 8744
fertigation 124, 148, 1246, 1501, 8160
furrow irrigation 4646
herbicides 124
Indonesia 8155
models 2584-2585, 5553
saline water 18, 8748
sodic water 767, 8748
sprinkler irrigation 767, 6626, 7321
trickle irrigation 767
models 4678
oats 704
peas 6137, 7587
Pennisetum glaucum 259, 3440, 5696
saline water 7476
sodic water 7476
Phaseolus lunatus, growth stages 3615
Phaseolus vulgaris 338, 7631, 8520
factory effluents 4647
furrow irrigation 4646, 5832
requirements 4333
sewage effluent 1911
trickle irrigation 4333
potatoes 1141-1142, 1769, 3638, 3643, 4469, 5178, 5980, 5995, 6414, 7714, 8551, 8747
fertigation 3650, 4459
furrow irrigation 4449, 4453, 5943
growth stages 5199
overhead irrigation 5943
reviews 3639
saline water 3684, 7909, 8552
sewage effluent 1911
sprinkler irrigation 4453, 4459, 5168, 5942-5943

Irrigation *cont.*
potatoes *cont.*
trickle irrigation 3650, 3682, 4454, 5942-5943, 8552
rape 5270
remote sensing 6192
requirements, books 7115
rice 837, 3043, 5625, 6488-6489, 6510, 7389-7390, 8215, 8219
drainage water 3382
flood irrigation 192
growth stages 3342-3343, 7386
requirements 7070
saline water 7387-7388
sprinkler irrigation 4895
water quality 3382, 8214
Ricinus communis 8745
Romania 8791
safflower 2335, 3736, 4641, 6804, 7799
growth stages 1840
requirements 7070
saline water 1331
sesame 5250, 6924, 7786-7787
factory effluents 4647
growth stages 1206
Sinapis alba, fertigation 1246
sorghum 934, 1299, 3430, 3804, 4641, 6590
fertigation 6589
furrow irrigation 6594
growth stages 6593
requirements 7070
saline water 5404, 8748
sewage effluent 3414
sodic water 8748
sprinkler irrigation 6626
sweet sorghum 935
soyabeans 276, 523, 981, 1299, 1332, 1611, 3043, 3462, 3464-3465, 3804, 5014, 5720, 5763-5764, 6641-6642, 7499, 7503, 8745
growth stages 2756, 4221
sprinkler irrigation 275, 4221
subsurface irrigation 1119
trickle irrigation 275, 4221
Sri Lanka 7910
sugarbeet 385-386, 523, 2273, 2904, 4427, 5499, 5921, 8747
furrow irrigation 4646
subsurface irrigation 1119
sugarcane 3787, 4610-4611, 5301, 7021, 7025, 8712-8713, 8715-8716
cultivars 3789
factory effluents 4620
furrow irrigation 3790
requirements 8714
trickle irrigation 3790, 7099
sunflowers 523, 3737, 4641, 5259, 6055-6056, 6950, 8653, 8655
factory effluents 5549
furrow irrigation 6054
saline water 7800, 8652, 8748
sodic water 8748
sweet potatoes 4496, 6008
sweetcorn
saline water 8748
sodic water 8748
tobacco 1875, 3007, 3770, 4594
turnips 4443
Vicia faba 3541, 5820, 6736, 7617-7618, 7624, 8427
furrow irrigation 5823
sprinkler irrigation 5823
trickle irrigation 5821-5822
Vigna mungo 8520, 8745
growth stages 6787
saline water 7909
Vigna radiata 1107, 4355-4356, 5091, 5847, 8456, 8520
saline water 7909
sodic water 5850
Vigna unguiculata 4366, 5102, 7661, 8463, 8465-8467, 8745
factory effluents 8744
wheat 6, 17, 26, 40, 516, 523, 611, 615, 1299, 1378, 1380, 1611, 1988-1989, 2435-2436, 3043, 3131, 3804, 3905, 4641, 4722, 5394, 5406, 5411, 5459, 5498, 6137, 6235, 7124, 7126-7127, 7141, 7147, 7994
economics 1379

Irrigation *cont.*
wheat *cont.*
fertigation 8001
flood irrigation 6247
growth stages 610, 3133, 4721, 5405, 7125, 8002
requirements 612, 7070
saline water 18, 3132, 3907, 4776, 5403-5404, 5421, 8079, 8748
sodic water 4776, 8748
sprinkler irrigation 6247, 6626
Triticum durum 40
growth stages 3133
waste water 2512
water use efficiency 3132
Irrigation requirements, Hungary 8746
Irrigation scheduling, reviews 2373, 3048
Israel
Hibiscus cannabinus
crop husbandry 8631
production possibilities 8631
precipitation 582
reports, Institute for Agriculture & Applied Biology, Ben-Gurion University of the Negev 1953
Italy
agricultural meteorology, books 599
air pollution 559
ozone 559
barley, cultivars 735, 961, 3919, 6631, 7263-7268, 8026, 8120-8121
Cicer arietinum, cultivars 1095
cotton, cultivars 2322, 7764
land use, remote sensing 3859
maize, cultivars 2105, 7335, 8163
oats, cultivars 2059-2060, 8092
peas, cultivars 2204-2206, 2231, 4295, 8400, 8759
Phaseolus vulgaris, cultivars 2232, 4334, 8759
potatoes, cultivars 4461, 5164, 8759
rape, cultivars 8666-8667, 8669-8670
rye, cultivars 2067, 8104
sorghum
cultivars 7451
sweet sorghum, cultivars 1586
soyabeans, cultivars 7519
triticale, cultivars 961, 2069, 2105, 6631, 8109
wheat
cultivars 961, 1986, 2020-2022, 3919, 6631, 7153-7156, 7996, 8026-8030
remote sensing 2058
Triticum durum
cultivars 2021-2022, 3919, 6631, 7154, 7156, 7160, 8026, 8028, 8030
remote sensing 2058
Triticum monococcum, cultivars 7986, 7996
Jack beans *(see Canavalia ensiformis)*
Jamaica, reports, Sugar Industry Research Institute 3870-3871
Japan
air pollution, acid rain 7943
barley, cultivars 7260
green manures 3041
legumes 3040
Hokkaido, rice, cultivars 4889, 4913
rice 7379
climate 913
climatic change 2693, 2695
cultivars 220, 866, 2658, 7409
trends 2673
grain, quality 2672
yield components 2672
yield forecasting 927
yields 2670-2671
trends 7412
seed production 3050
soyabeans, cultivars 7518
Vigna radiata, cultivars 2873
Jute
cell culture, protoplasts 907
cultivars, Brazil 1830
diseases, *Fusarium solani* 3723
enzymes, lyases 4543
fertilizers
nitrogen 1829, 2969
sources 4542

Jute *cont.*
harvesting date 1829
mycorrhizas 3723
pests, *Anomis sabulifera* 2970
plant density 7777
protoplasts
oxygen 907
regeneration 907
rotations, rice 1829, 4542
seedling emergence
soil water content 7905
sowing depth 7905
seedlings, growth, allelopathy 5480
soil inoculation
Azospirillum brasilense 3723
Glomus macrocarpum 3723
soil water content 7905
sowing depth 7905
sowing methods 7777
broadcasting 6918
sowing rates 7777
spacing 2969, 7777
tissue culture
enzymes 4543
regeneration 4543
Kazakhstan
maize, cultivars 4064
wheat, cultivars 8013
Kenaf *(see Hibiscus cannabinus)*
Kenya
groundnuts, cultivars 8358
wheat
cultivars 1994
seed production 1995
Korea Republic
Amorphophallus konjac, cultivars 424
maize, cultivars 2102-2104
reports, Rural Development Administration 6203
rice, cultivars 911, 915
soyabeans
climate 4261
cultivars 5727
tobacco, reviews 7846
wheat, cultivars 3916
Lablab niger *(see Lablab purpureus)*
Lablab purpureus
chemical composition
nitrogen 2798
phosphorus 2798
cultivars
Arka Jay 2893
Arka Vijay 2893
Co11 1111
enzymes, nitrate reductase 5903
fertilizers, phosphorus 2798
growth regulators
2,4-D 5904
kinetin 5904
NAA 5904
intercropping, *Brachiaria mutica* 8740
irradiation, ultraviolet radiation 1314
leaves, enzymes 5903
mycorrhizas 2798
nodulation 2798
nodules, anatomy 382
photosynthesis
irradiation 1314
photosystem II 1314
plant density 8517
pods, enzymes 5903
rotations, rice 2374
seed germination, metabolism, thiamin 380
seed quality 1753
seeds
composition 5139
fatty acids 5914
lipids 5914
polyamines 4412
proteins 1753
metabolism, thiamin 380
soil inoculation
Acaulospora 2798
Gigaspora calospora 2798
Gigaspora margarita 2798
Glomus mosseae 2798
tissue culture
culture media 5904
explants 5904
growth regulators 5904

Land use
- books 4704
- China, Liaoning 3860
- climatic change, Mediterranean countries 4687
- conferences 6208
- Costa Rica, remote sensing 1949
- Italy, remote sensing 3859
- Mali 4650
- models 8090
- planning, Philippines, expert systems 4681
- reclaimed land, Romania 573
- remote sensing, France 8803
- Sahel, remote sensing 1948
- Saudi Arabia, remote sensing 3857
- Spain, remote sensing 3099, 5714
- UK, remote sensing 1950
- upland areas, Poland 7088
- USA, Florida, remote sensing 3100
- Zambia 1344, 8149

Lathyrus
- enzymes
  - glutamate-ammonia ligase 7925
  - nitrate reductase 7925
  - nitrite reductase 7925
- leaves, metabolism, nitrogen 7925
- metabolism, nitrogen 7925

Lathyrus sativus
- chemical composition, amino acids 4414
- enzymes, oxidoreductases 2896
- growth regulators
  - benzyladenine 376
  - NAA 376
- metabolism
  - amino acids 1113
  - toxins 1113
- seeds
  - composition
    - proteins 5907
    - sterols 2898
- tissue culture
  - growth regulators 376
  - metabolism 1113
  - regeneration 376

Latin America, potatoes, true seeds, production 7981

Leaf area, determination, techniques 7949

Leaf area index, estimation, remote sensing 8804

Leaves
- anatomy, techniques 7949
- canopy
  - energy balance, models 7964
  - light, interception, models 5338
  - models 4674
  - reflectance
    - models 3096
    - remote sensing 569
  - remote sensing 567, 7086
  - solar radiation, models 2644, 3104
  - stomatal resistance, models 8148
  - temperature, determination, techniques 4688
  - thermal radiation, remote sensing 3095
- composition, waxes 3077
- development, reviews 1041
- growth, reviews 3075
- hypoxia, reviews 3073
- initiation, reviews 1041
- metabolism
  - lipids, reviews 544
  - sucrose, reviews 800
- senescence, enzymes, reviews 7419
- stomatal movement
  - growth regulators 8780
  - reviews 3073
- stomatal resistance, models 2132
- water content, statistical analysis 4840
- wettability 3077

Legumes (*see also* specific crops)
- bibliographies, South East Asia 8822
- books 4700
  - South East Asia 8822
- carbon dioxide enrichment 1938
- chemical composition
  - lectins 8785
  - zinc 7934
- climatic change, India 1938
- cultivars, Netherlands 6148-6149

Legumes *cont.*
- fertilizers
  - boron 5423
  - molybdenum 5423
  - nitrogen 7912
    - reviews 2265
  - NPK fertilizers 8752
  - requirements 8752
  - sulphur 6142
- intercropping, cereals 2746
- mineral nutrition, nitrogen 6186
- mineral uptake, nitrogen, reviews 6164
- nitrogen fixation 2746
  - books 7108
  - fertilizers 2265
  - mineral nutrition 2383
  - reviews 8526
- nodulation
  - fertilizers 2265
  - growth regulators 8527
  - mineral nutrition 2383
  - reviews 2901
- nodules
  - growth, reviews 6186
  - metabolism
    - free radicles 6828
    - heavy metals 6828
    - reviews 5919
  - senescence 6828
- production, tropics, books 1363
- roots, enzymes 6164
- rotations 5910
- seeds
  - composition, proteins 6824
  - translocation 535
- soil types 5910
- symbiosis, books 6217
- tissue culture
  - organogenesis 5916
  - reviews 5916
  - somatic embryogenesis 5916
- translocation
  - nitrogen 6186
  - reviews 8526
- yield forecasting, models 7966

Lens culinaris
- allelopathy
  - *Pennisetum glaucum* 3076
  - sorghum 5345
- cell culture, culture media 5132
- chemical composition 4400
  - amino acids 4414
  - zinc 5895
- cultivars
  - India, Madhya Pradesh 8504
  - Pakistan 1743
  - Poland 2258
  - Palouse 1744
- cultivation, no-tillage 4293
- drought resistance
  - cultivars 1745
  - determination 1745
- enzymes
  - acid phosphatase 5130
  - catalase 5130
  - glutamate-ammonia ligase 7925
  - lyases 5130
  - nitrate reductase 5128, 7925
  - nitrite reductase 7925
  - oxidoreductases 2896
  - oxygenases 5896
  - peroxidases 5130
- fertilizers
  - boron 6827
  - calcium 369
  - cobalt 6827
  - copper, foliar application 2889
  - iron, foliar application 2889, 8505
  - manganese, foliar application 2889
  - molybdenum 368, 6827
  - nitrogen 368, 2902, 5894, 6827
    - application methods 7908
    - requirements 4710
    - residual effects 212
    - use efficiency 4293
  - NPK fertilizers, foliar application 2889
  - phosphorus 5127-5129, 5894, 6815, 7674-7676, 8502-8503
    - application methods 7908
  - potassium 5894

Lens culinaris *cont.*
- fertilizers *cont.*
  - potassium *cont.*
    - application methods 7908
  - sulphur 369
    - requirements 1116
  - zinc
    - application methods 5895
    - foliar application 2889
- grain, composition, proteins 7675
- green manures 7044
- growth regulators
  - 2,4-D 5131
  - IAA 5131
  - IBA 5131
  - kinetin 5131
  - NAA 5131
  - pyridoxine 5128
  - thidiazuron 5146
- harvesting, mechanization 3602-3603
- harvesting losses 3603
- intercropping
  - barley 5126
  - *Brassica juncea* 7055
  - *Cicer arietinum* 7055
  - *Guizotia abyssinica* 1742
  - sugarcane 2361
  - wheat 3602
- irrigation 1107, 1742, 6137, 6814, 7674-7676
- leaves
  - composition
    - copper 2889
    - iron 2889
    - manganese 2889, 5130
    - nitrogen 2889
    - phosphorus 2889
    - potassium 2889
    - sulphur, determination 1116
    - zinc 2889
  - enzymes 5130
  - metabolism, nitrogen 7925
- lodging 3602
  - plant density 6814
  - soil water 6814
- metabolism
  - lectins 7602
  - nitrogen 7925
- mineral nutrition
  - calcium 369
  - copper 4400
  - iron
    - cultivars 8505
    - deficiency 8505
    - foliar diagnosis 8505
  - manganese, deficiency 5130
  - molybdenum 368, 4400
  - nitrogen 368, 4400
  - phosphorus 4400
  - potassium 4400
  - sulphur 369
    - foliar diagnosis 1116
  - zinc 4400
- mineral uptake
  - calcium 369
  - molybdenum 368
  - nitrogen 368, 2902, 4293, 7675
  - phosphorus 7675
  - sulphur 369, 1116
- morphology 2258
- mulches
  - crop residues 4293
  - straw 1742, 7055
- nitrogen fixation 2902, 7044
  - estimation 8507
- nodulation
  - fertilizers 6827, 8503
  - irrigation 7676
- plant density 6814
- pollution
  - caesium 7078
  - radionuclides 7078
- protoplasts
  - enzymes 5896
  - isolation 5132
  - regenerative ability 5132
- roots
  - composition, lectins 7677
  - growth
    - salinity 7679
    - water stress 7678

***Lens culinaris** cont.*
roots *cont.*
length, salinity 7679
rotations
rice 212, 6137
wheat 4293
salinity 7679
seed germination
allelopathy 3076, 5345
salinity 7679
seed treatment 8506
water stress 7678
seed inoculation
bacteria 7674-7676
Rhizobium 5129, 8503
seed treatment
pyridoxine 5128
soaking 5128
temperature 8506
seedlings, growth, allelopathy 3076
seeds
composition 2258
calcium 369
lectins 7677
nitrogen 2902
phenolic compounds 3779
proteins 5128, 7675
sterols 2898
sulphur 369
drying 8506
moisture content 8506, 8525
physical properties 8525
shelterbelts 3861
soil
organic matter 5127
phosphorus 5127
soil amendments, lime 368
soil inoculation, *Rhizobium leguminosarum* 6827
soil moisture 6814
sowing date 7673
sowing methods 7908
sowing rates 4399, 8502
spacing 2257, 2888, 4399, 7673, 8502
straw
composition
calcium 369
sulphur 369
Sudan 5125, 7672
taxonomy 2903
tissue culture
growth regulators 5131, 5146
regeneration 5146
seeds 5146
water stress 7678
growth stages 5133
water table 1107
water use efficiency 1107
weed control, biological control 6278
weeds, *Malva pusilla* 6278
yield components 2258
***Lens esculenta** (see Lens culinaris)*
Lentils *(see Lens culinaris)*
Lesotho
maize, crop husbandry 752
sorghum, crop husbandry 752
Lesquerella, seeds, composition, fatty acids 6083
Light *(see also* Solar radiation)
determination
books 7101
models 7101
plant physiology 548
Light intensity, reviews 3837
Lima beans *(see Phaseolus lunatus)*
Limnanthes alba
dry matter distribution 4589
enzymes, transferases 6989
fertilizers
nitrogen 6081
application date 6082
irrigation, growth stages 6081
metabolism
acylglycerols 6989
fatty acids 6989
lipids 486
photosynthesis, gas exchange 8690
pollination 4589, 6990
respiration 8690
seed development
enzymes 6989

***Limnanthes alba** cont.*
seed development *cont.*
metabolism 486, 3006, 6989
seed production
pollination 6990
temperature 4590
seeds
composition
fatty acids 6083
oils 6081-6082, 6084
metabolism
fatty acids 3006, 3763
triacylglycerols 3006
shading 4589, 6084
sowing rates 6081
temperature 6084
growth stages 4590
yield components 6084
Linseed *(see Linum usitatissimum)*
Linum usitatissimum
allelopathy 1197-1198
cell membranes, enzymes 8630
cell walls
composition, pectins 7776
enzymes 4539
chemical composition
ascorbic acid 1197
calcium 4647, 6936
chlorophyll 4553
iron 4647
magnesium 4647, 6936
phosphorus 4647, 6936
zinc 6936
conferences 5375
continuous cropping 1197, 5324
crop husbandry
Germany 7774
Poland 6044
cultivars
Austria 7845
Denmark 8758
France 7918
Germany 2976
India 1209-1210
West Bengal 8642
Netherlands 6148-6149
Tanzania 8644
Eyre 8645
Gaurav 2977
Omega 1838
Verne 1839
Wallaga 8645
cultivation 4538
methods 521
no-tillage 521
desiccants, glufosinate-ammonia 1301
diseases, *Thielaviopsis basicola* 5324
enzymes
esterases 4539
hydro-lyases 7798
IAA oxidase 4550
methyltransferases 8630
oxygenases 7798
peroxidases 4550
fertilizers
boron 5240, 8643
nitrogen 5, 445-446, 1828, 2975, 3722, 3734, 5237, 5253, 6050, 7796, 7845, 8643
application methods 5239
use efficiency 5238
NPK fertilizers 7991
phosphorus 6050
application methods 5239, 6935-6936
residual effects 6935-6936
potassium 6050
application methods 5239
sources 5255
sulphur 8643
zinc 6935-6936
fibres, quality 1828
flowers, development 3735
frost injury 6940
growth 4538
growth analysis 2975
growth regulators
abscisic acid 4551, 4554
benzyladenine 4552
chlormequat 436, 3722, 5252-5253
2,4-D 6051

***Linum usitatissimum** cont.*
growth regulators *cont.*
ethephon 436, 445, 3722, 5253
gibberellins 4551
IAA 4551
kinetin 4551
mepiquat 5253
NAA 4552
paclobutrazol 5252
Paras Photosynth 3807
zeatin riboside 4554
harvesting
machinery 8629
methods 3722
harvesting date 3722
harvesting losses 3049
herbicides
residual effects 2978
trifluralin 2978
humidity 6939
hypocotyls
composition
calcium 7775
magnesium 7775
enzymes 8630
growth 7776
intercropping
Cicer arietinum 2882, 3807, 7054
safflower 7054, 8646
wheat 4-5, 7991
irradiation, ultraviolet radiation 4553
irrigation 7797
factory effluents 4647
growth stages 3734, 5251
water use efficiency 3734
land use 573
leaves
accumulation, callose 3065
composition, chlorophyll 2975
light
blue light 2967
far red light 2967
red light 2967
lodging 1828
metabolism, potassium 3062
mineral nutrition
manganese, toxicity 3065
nitrogen 6816
phosphorus
deficiency 6938
foliar diagnosis 6938
potassium 3062
mineral uptake
calcium 6936
magnesium 6936
nitrogen 5238
phosphorus 6816, 6936
potassium 3062
zinc 6936
multiple cropping
groundnuts 7903
rice 513
sesame 7903
mycorrhizas 4554
pests, nematodes 5285
photosynthesis
gas exchange 4554
growth regulators 4554
mycorrhizas 4554
plant competition
weeds 8671, 8799
volunteer plants 2333
plant density 446, 1837, 2975
pollination 3735
pollution, cadmium 5255
production possibilities, France 2332
relay cropping, rice 513
remote sensing, reflectance 3097
respiration
growth regulators 4554
mycorrhizas 4554
root exudates, allelopathins 1198
rotations 5324
Lupinus albus 6816
Phaseolus vulgaris 6816
seed germination
growth regulators 4551
metabolism
carbohydrates 4551
proteins 4551
sodium 5254

Linum usitatissimum *cont.*
- seedbed preparation 7819
- seedling emergence
  - soil compaction 7819
  - sowing depth 7819
- seedlings
  - cotyledons
    - buds, growth 2967
    - composition
      - calcium 7775
      - magnesium 7775
- seeds
  - composition
    - cadmium 5255
    - fatty acids 446, 1209-1210, 2976, 5255, 6991
    - lipids 4670, 6991
    - nitrogen 3734
    - oils 445-446, 1209-1210, 2976, 3734, 4670, 5255, 6050
    - proteins 445, 811, 1210, 4670
  - discoloration 6939
  - enzymes 7798
  - metabolism
    - lipids 4670
    - oils 4670
    - proteins 4670
  - moisture content, determination 6085
- soil
  - phosphorus 6050
  - sodium 5254
- soil amendments
  - dolomite 3060
  - lime 3060, 5255
- soil compaction 7819
- soil pH 5240
- soil types, sodic soils 5254
- soil water content 521
- sowing date 1828, 7796, 8642
- sowing depth 7819
- sowing rates 436, 445, 1828, 1837, 5237, 7795-7796, 8641
- spacing 2975, 7795-7796, 8641
- stems, anatomy 2966
- straw, composition, fibre 445
- temperature 6939
- tissue culture
  - culture media 6051
  - enzymes 4550
  - growth regulators 4552, 6051
  - hypocotyls 4550
  - organogenesis 4550
  - regenerative ability 4552, 6051
- transpiration
  - growth regulators 4554
  - mycorrhizas 4554
- water use 3734, 7797
- water use efficiency 3734
- weed control
  - herbicides 2333
  - reviews 8799
- weeds
  - *Hordeum vulgare* 2333
  - *Stellaria media* 8671
- yield components 1837, 2975
  - cultivars 6937
- yield correlations 6937

Lithuania
- fertilizers 7911
- soil fertility 7911

Lunaria, seeds, composition, fatty acids 6083

Lupinus
- chemical composition, amino acids 550
- conferences 7979
- crop husbandry, Australia 7680
- fertilizers
  - sulphur 370
  - zeolites 2378
- mineral uptake
  - copper 370
  - iron 370
  - zinc 370
- rooting depth, fertilizers 370
- seeds
  - composition
    - nitrogen 381
    - proteins 381
    - vicine 381
- shelterbelts 2406, 6180
- soil conservation 2406

Lupinus *cont.*
- waterlogging 7938

Lupinus albus
- catch crops 2372
- cell cultures
  - metabolism
    - flavonoids 2260
    - isoflavonoids 4403
- chemical composition
  - alkaloids 6819
  - chlorophyll 3617
  - manganese 6816
  - nitrogen 371, 8513
  - phosphorus 6816
- chloroplasts
  - enzymes 7685
  - thylakoids 1748, 7685
- crop husbandry 5897
- enzymes
  - adenosinetriphosphatase 7685
  - IAA oxidase 7681, 7683
  - nitrogenase 373, 2220
  - peroxidases 7681, 7683
  - phosphoric monoester hydrolases 1109
- fertilizers
  - boron 6827
  - cobalt 6827
  - molybdenum 6827
  - nitrogen 1110, 4407, 6827, 8513
- growth regulators
  - benzyladenine 4406
  - IAA 2261, 7683
  - isopentenyladenine 4406
  - NAA 4406
- growth stages, classification 5347
- herbicides
  - imazethapyr 1943
  - linuron 1943
- hypocotyls
  - enzymes 7681
  - growth, growth regulators 2261
- irrigation, sprinkler irrigation 1108
- leaf area 3617
- leaves
  - composition
    - copper 5900
    - manganese 5900
    - zinc 5900
  - damage 2891
- light 8510-8511
- metabolism
  - flavonoids 2260
  - proteins 8509
- mineral nutrition
  - copper 5134
  - iron, deficiency 2259, 2891, 5900, 7490
  - manganese, deficiency 2259
  - nitrogen 371, 2259, 6816
    - sources 2222
  - phosphorus 2259, 6816
    - sources 1109
- mineral uptake
  - iron 7490
  - manganese 6816
  - nitrogen 371, 5900
  - phosphorus 6816
- nitrogen fixation 1110, 3617, 4407, 5897
  - mineral nutrition 2222
- nodulation 4407
  - fertilizers 6827
  - mineral nutrition 2222
- nodules
  - anatomy 8510
  - composition, proteins 8511
  - diffusion, oxygen, models 373
  - enzymes 2220
  - oxygen 2220
    - diffusion 8510-8511
  - respiration 2220
- photosynthesis, water stress 1748
- plant density 8513
- root tips, enzymes 1109
- roots
  - cells, ultrastructure 372
  - composition
    - calcium 5900
    - iron 5900
    - magnesium 5900
    - nitrogen 5900

Lupinus albus *cont.*
- roots *cont.*
  - composition *cont.*
    - phosphorus 5900
    - potassium 5900
  - respiration 373
  - temperature 372
- seed development 1747
- seed germination
  - metabolism 5899
    - sugars 7682
  - temperature 1749
- seed inoculation
  - *Bradyrhizobium* 4407
  - *Bradyrhizobium lupini* 2259, 6816
  - *Rhizobium lupini* 1110, 8513
- seed quality 1753
- seedlings
  - accumulation, isoflavones 5134
  - composition, proteins 1749
  - metabolism, proteins 1749
  - temperature 1749
- seeds
  - composition
    - alkaloids 6819
    - enzyme inhibitors 2899
    - fatty acids 5914
    - lipids 5914
    - nitrogen 371, 1110
    - proteins 1108, 1110, 1747, 1753, 8509
    - trypsin inhibitors 7684
  - imbibition 1749
  - metabolism, proteins 8509
- shoots
  - composition
    - calcium 5900
    - iron 5900
    - magnesium 5900
    - manganese 2259
    - nitrogen 5900
    - phosphorus 5900
    - potassium 5900
- soil inoculation, *Bradyrhizobium* 6827
- soil pH 2891
- soil temperature 8510-8511
- spacing 1108
- temperature 372
- tissue culture
  - culture media 4406
  - growth regulators 4406
- translocation, growth regulators 2261
- water stress 1748, 7685
- water use efficiency 1108

Lupinus angustifolius
- chemical composition, nitrogen 371
- climate, Australia, Western Australia 6125
- crop husbandry 5897
  - Australia, Western Australia 6126
- cultivars
  - Belarus 4401
  - Ladnyi 2890
- cultivation, ripping 5473
- enzymes, phosphoric monoester hydrolases 1109
- fertilizers
  - nitrogen, sources 3609
  - phosphorus
    - requirements 3810
    - residual effects 3604-3605
    - sources 1396, 5329
  - potassium 5473
  - zinc 1396
- growth regulators, ethylene 5838
- intercropping, peas 1297
- leaf water potential 3606-3607
- metabolism, enzymes 6818
- mineral nutrition
  - aluminium 3066
  - manganese 2387
  - nitrogen 371, 5329
    - sources 3609
  - phosphorus, sources 1109
  - zinc, deficiency 1396
- mineral uptake
  - nitrogen 371, 3609
  - sulphur 3609
- nitrogen fixation 5897
  - mineral nutrition 3609
- pH 3608, 8512

Lupinus angustifolius *cont.*
root tips, enzymes 1109
roots
anatomy, pH 3608
cation exchange capacity 3066
distribution, soil compaction 6181
growth 5473
pH 3608, 8512
soil compaction 3084
soil properties, reviews 5474
length 3066
osmotic pressure 3606-3607
size 3084
rotations
oats 3604
wheat 3604-3605
salinity 5474
seeds
composition
coumarins 4405
nitrogen 371
phosphorus 3604
soil, phosphorus 3604-3605
soil compaction 3084, 6181
soil pH 5474
soil types 5473-5474, 6125-6127
transpiration 3606-3607
water relations 3606-3607
water uptake 3606-3607
waterlogging 5474
weather 4401
Lupinus cosentinii
crop husbandry 5897
nitrogen fixation 5897
Lupinus luteus
chemical composition
chlorophyll 3617
nitrogen 371
nucleic acids 2262
chlorophyll, fluorescence, cultivars 4402
cultivars, Augiai 6817
enzymes
acid phosphatase 374, 1746
aspartate-ammonia ligase 5898
hydro-lyases 5898
ligases 5898
triacylglycerol lipase 374
fertilizers, paper mill sludge 8508
growth regulators, abscisic acid 5135
leaf area 3617
leaves, stomatal movement, growth regulators 5135
metabolism
asparagine 5898
enzymes 6818
proteins 4404
mineral nutrition
calcium 5135
copper 5134
nitrogen 371
mineral uptake, nitrogen 371
nitrogen fixation 374, 3617, 5426
nodulation 374
nodules
enzymes 374, 5898
metabolism, asparagine 5898
precipitation 6820
roots, composition, proteins 4404
seed germination
enzymes 1746
metabolism, sugars 7682
seedlings
accumulation, isoflavones 5134
cotyledons, enzymes 1746
seeds
composition, nitrogen 371
cotyledons, enzymes 1746
soil amendments, straw 5426
temperature 6820
water use efficiency 5135
yield correlations 4402, 6820
Lupinus varius, fertilizers, phosphorus, requirements 3810
Luxembourg
agricultural meteorology 4707
reports, Commission of the European Communities 7097, 7973
Macrotyloma geocarpum
leaves, thickness 5917
light intensity 5917
photosynthesis, light 5917
Macrotyloma geocarpum *cont.*
shading 5917
Macrotyloma uniflorum
allelopathy, *Digera muricata* 1112
chemical composition
chlorophyll 1112
proline 5906
proteins 1112
cultivars, Paiyur 1 4413
enzymes
alanine aminotransferase 3612
aspartate aminotransferase 3612
glutamate-ammonia ligase 3612
glutamate dehydrogenase 3612
nitrate reductase 3612
(s)-2-hydroxy-acid oxidase 375
fertilizers
nitrogen 6821
phosphorus 4644, 5905, 6821
intercropping
Guizotia abyssinica 4644
Ricinus communis 8736
leaf area 3611
leaves, composition, proline 3611
mineral nutrition, phosphorus, deficiency 3611
mineral uptake
nitrogen 5905
phosphorus 5905
photosynthesis, isotope fractionation 375
reviews 5140
root shoot ratio 3611
roots, anatomy 3611
rotations, rice 2374
salinity 375, 5906
seed germination
allelopathy 1112
salinity 5906
seedling emergence
soil water content 7905
sowing depth 7905
seedlings
enzymes 3612
growth
allelopathy 1112
salinity 5906
water stress 3612
seeds, composition, sterols 2898
shoots, composition, phosphorus 3611
soil depth 7689
soil water content 7905
sowing date 4644, 5905, 6821, 7689
sowing depth 7905
water stress 3612
water transfer 3611
Madia sativa
cropping systems 1250
ecology 1250
taxonomy 1250
Maize (*see also* Sweetcorn)
accumulation
iron 144
manganese 144
nitrogen 149, 3289
phosphorus 144, 149
potassium 149
zinc 144
agricultural meteorology 568, 815
Canada 7095
China 7095
Yunnan 4146
Europe 7095
India 7095
Italy 599
models 1535
Morocco 968
Taiwan 7961
USA 1535, 7095
agroforestry 127, 515, 2085, 5537
Colombia 1951
Costa Rica 8150
Gambia 6415
India, Tamil Nadu 6133
Malawi 8735
air pollution
fluorine 7288
ozone 2394, 5356
sulphur dioxide 1533
allelopathy 8784
Lupinus 7941
alley cropping 127
Maize *cont.*
alley cropping *cont.*
Cassia siamea 6415
Erythrina poeppigiana 8150
Flemingia macrophylla 6410
Gliricidia sepium 7304, 8150
Leucaena leucocephala 4062-4063, 5537, 6410, 7304, 7315
anaerobiosis 2390
anoxia 1531, 2640
antitranspirants 4048
apical meristems, temperature, estimation, models 826
atmospheric pressure 5614
biomass production 1587
carbon dioxide enrichment 1938, 2513, 3453, 5769
reviews 1656
catch crops 5557, 8798
cell culture
protoplasts 2630
temperature 5613
cell cultures
composition, proteins 2627, 4875
herbicides 3068-3069
mineral nutrition 6154
respiration 5613
cell differentiation, reviews 6460
cell division 2356
herbicides 1512
cell membranes
enzymes 1517
herbicides 2607
ion transport 8434
metabolism, phospholipids 173
plasma membranes
binding proteins 170
electric potential 2606, 5591
electrical properties 8177
enzymes 8182-8183
growth regulators 5591, 8177, 8182-8183
purification 1517
tonoplast
enzymes 155, 1721, 8173
ion transport 8166, 8173
transfer, proteins 1415
cell walls
composition, proteins 178, 3827
growth 3827
physical properties 1523
plasmodesmata, isolation 178
thickness, measurement 6475
cells
calcium 8182
composition, calcium 4083
cytoplasm, accumulation, ammonia 4857
Golgi apparatus, metabolism, carbohydrates 8171
ion transport, determination 4858
microtubules 1524, 6457, 8195
mitochondria 5613
enzymes 3454
nuclei, composition, proteins 8190
pH 173, 8182
vacuoles 8166
accumulation, ammonia 4857
chemical composition 4650
amino acids 4051, 7342
anions 469
boron 2152, 6162
cadmium 2391, 3435, 5615, 7370
calcium 6161
carotenoids 7342
cations 469
chlorophyll 1472, 2635, 3316, 4051, 6400, 7342
copper 145, 778, 2391, 6162, 7370
crude protein 2104
DIMBOA 4859
DNA, determination 1339
elements 4206, 8207
fibre 2104
growth regulators 4869-4870
heavy metals 146
iron 6162
lead 2391, 7370
magnesium 6161
manganese 2646, 4073, 6162
molybdenum 6162

Maize *cont.*
chemical composition *cont.*
nickel 7344
nitrates 1246
nitrogen 128, 151-152, 469, 1507, 2112, 2595, 2608, 3297, 6161, 6448, 7325, 8768
oils 2104
organic acids 7342, 8786
phenolic compounds 7076
phosphorus 150, 794, 2647, 3297, 4847, 6161, 6448
pigments 6400
potassium 3297, 6161, 6448, 7325
proteins 2595, 4199, 6457
sodium 6161
sugars 4051, 7342
sulphur 794, 1533
titanium 7485
trace elements 4206
vitamins 7360
zinc 798, 824, 2391, 3435, 4073, 6162, 7333, 7370
chlorophyll, fluorescence 790, 8762
chloroplasts
electron transfer 5045
enzymes 3454, 5797
membranes
composition, carotenoids 6441
metabolism, carotenoids 6441
metabolism, fatty acids 1530, 5797
temperature 6465
ultrastructure 6465
water stress 6465
climate 8798
climatic change 3862
Czechoslovakia 3848
Europe 2645
India 1938
models 5769
USA 6329
models 578-581
cold resistance 790, 1418, 1530, 6468-6469
growth regulators 2638, 4882
coleoptiles 5597
cell membranes
composition, proteins 5599
ion transport, calcium 4070
cell walls
composition, proteins 5599
growth 806
composition, proteins 168
enzymes 155, 157
growth 821, 1523, 4082, 5594
growth regulators 4070, 4082, 5594, 8195
ion exchange 165
light 4878, 8195
metabolic regulators 4070
pH 165
tropisms
geotropism 4083, 4669
phototropism 4083
conferences 1361, 7978
continuous cropping 763, 780, 5324
cover crops 1490
Calopogonium caeruleum 2086
Calopogonium mucunoides 2086
Centrosema pubescens 2086
Crotalaria juncea 2086
Flemingia congesta 2086
legumes 1908
Lolium perenne 2088
Medicago sativa 2088
Mucuna pruriens 2086
Phacelia tanacetifolia 2088
Pueraria phaseoloides 2086
radishes 2088
rape 2088
rye 129, 2088, 5538
Trifolium incarnatum 4043
Trifolium subterraneum 756, 1298
triticale 2088
Vicia faba 2088
Vicia villosa 6416
wheat 2088, 5538
crop husbandry
Canada, Alberta 4035
Lesotho 752

Maize *cont.*
crop husbandry *cont.*
South African Homelands, Kwazulu 782
crop management, computer software, expert systems 4841
crop residues
distribution 7297
incorporation 761
removal 130, 1492, 7297
cropping systems
India, Uttar Pradesh 8808
USA, Virginia 574
cultivars
Austria 5709-5710
Belgium 8162
Brazil, Santa Catarina 4654
Canada 4853
Chile 765
China 6433
Denmark 2384
Egypt 1509
France 2090
India
Meghalaya 6412
Rajasthan 7331
Italy 2105, 7335, 8163
Kazakhstan 4064
Korea Republic 2102-2104
Netherlands 6148-6149
Philippines 781
Poland 780, 7311
Romania 147, 3282
South African Homelands, Kwazulu 782
Switzerland 3283
Taiwan 8154
Thailand 6436, 6448
USA 1313
Alabama 8161
Georgia 6434-6435
Illinois 1508
Ohio 5335
Venezuela 2602
Corsaire 783, 963
Corso 783, 963
Helga 783, 963
Jungbuok 4854
Kavkaz 412CV 3285
Kosmo 3284
Prabha 2603
Wan Xin-1 7336
cultivation
chiselling 2087, 3264, 3272, 3841, 4843, 5543, 7295, 7904, 8153
conservation tillage 7296
crop residues, incorporation 6413, 7305
date 759
deep tillage 762
depth 758, 2577, 6358, 7295, 7298
discing 520, 1513, 3808, 7904, 8153
harrowing 520, 1491, 7904
hoeing 5542
loosening 6358
methods 124, 130, 757, 7323
minimum tillage 764, 1494, 1602, 2579, 5542-5543, 5557, 7298
no-tillage 130-131, 757-759, 762-764, 1491-1492, 1909, 2087, 2097, 2578, 3046, 3125, 3219, 3264-3265, 3272, 4044, 4055, 4843, 5542-5543, 5555, 6416-6417, 6423, 7297, 7299, 7305, 7307, 7323, 8152-8153
ploughing 520, 757, 759-760, 763-764, 2579, 3263, 3265, 3272, 3808, 4843, 5543, 5555, 6417, 7904, 8152-8153
ridging 1493, 1513, 1602, 2087, 3263-3264, 3272, 5539-5540
rotary cultivation 3219
stubble cultivation 6358, 8152
subsoiling 758, 760
tie ridging 8152
cutting 1498
damage, responses 5348
defoliation, models 1497, 5554
diseases
maize chlorotic dwarf ribotungrovirus 6435

Maize *cont.*
diseases *cont.*
maize chlorotic stripe tenuivirus 787
maize dwarf mosaic potyvirus 6435
maize stripe geminivirus 787
Pythium 5324
drainage 4087, 8198
drought 2635, 3269, 5608-5609, 6329, 8074, 8200, 8310
models 8199
drought resistance 969, 4090, 5606, 6466, 7366
cultivars 6458
dry matter accumulation 3312
mineral nutrition 2613
dry matter distribution, cultivars 1509
ears
composition
carbohydrates 7351
proteins 4874
development 3304, 4874
enzymes 7351
growth 4050
moisture content 5546
number 7293
respiration 3288
energy relations 124
energy requirements 124, 4703
enzymes
acid phosphatase 2621
adenosinetriphosphatase 155, 1517, 3250, 3454, 4072, 4866, 5050, 5580, 5582, 5584, 6451, 6468, 8173, 8182-8183, 8203
alcohol dehydrogenase 2127
aminotransferases 799
amylases 53, 158, 1516, 2118, 5590
aspartate-ammonia ligase 799
carboxy-lyases 4659, 5587
catalase 161, 1515, 2612, 2615, 5337, 6150, 7064
cytochrome-c oxidase 1529, 2612
esterases 4075, 7352
β-fructofuranosidase 174, 4079, 5590, 7351
glucosidases 157, 812, 3309
glutamate-ammonia ligase 4883, 7349, 7353, 7925
glutamate dehydrogenase 799, 4883
glutamate synthase 4883, 7349, 7353
hydro-lyases 796, 2116
hydrolases 2117, 2612, 2624, 3307, 6453
IAA oxidase 494
inhibitors 53
isocitrate lyase 2615
isomerases 1515
lactate dehydrogenase 2127
ligases 2614-2615, 5588
lyases 154, 1515, 2615, 3168, 3315, 5580
malate dehydrogenase 2619
methyltransferases 802
nitrate reductase 153, 801, 1418, 2113, 4076, 4883, 7348-7349, 7925
nitrite reductase 2113, 7349, 7925
oxidoreductases 1531, 1923, 2615, 2622, 3315, 3826, 4077-4078, 4865, 5580-5581, 5586, 5606, 6279, 6468, 8178
oxygenases 2617
peptide hydrolases 5585, 8184
peroxidases 161, 494, 2612, 2624, 5606, 7064, 8178
phosphoenolpyruvate carboxylase 156, 1515, 2116, 2618, 2620, 3308, 4864, 4881, 4960, 6452, 7350
phosphoric monoester hydrolases 1515, 3306, 4867, 8172
phosphotransferases 1515, 1925, 3823, 4867, 7350-7351, 8172
pyrophosphatases 1517, 1721, 4072
ribulose-bisphosphate carboxylase 1515, 4657, 6166, 7013
(s)-2-hydroxy-acid oxidase 6150, 7064
succinate dehydrogenase 1529, 2612
sucrose synthase 174, 800, 1515, 4863, 7351

Maize *cont.*
enzymes *cont.*
superoxide dismutase 5606
transferases 2604, 2615, 5583, 5590, 5797, 6449, 8175
equipment, subsoilers 5717
ethanol production 1587
evapotranspiration 817, 825, 2123, 4050, 5611, 6626
estimation 7070, 7493
models 1527
models 2584
farming systems
alternative farming 5541
sustainability 8149
Zambia 8149
fertilizers 4650
boron 1033, 2382, 2386
cattle manure 779, 2100, 2641, 5555
cattle slurry 2087
application methods 1507
composts 779, 4058, 5555, 6147
copper 145, 778, 2382, 4851, 6429
crop residues 4060, 4063, 5539, 6144, 7315
residual effects 5643
factory effluents 146, 5963
farmyard manure 38, 134-135, 3451, 4847, 4851, 6143-6144, 6424, 6431, 7063, 7320, 7325, 7327-7328, 7487, 7902
fluoride 2095
iron, residual effects 5681
magnesium 5573
residual effects 1505
manganese 959
nitrogen 125-126, 134-135, 137, 139, 144, 152, 468, 514, 520, 769, 771-772, 793, 1321, 1507, 1509, 1605, 2084, 2086-2087, 2091, 2100, 2112, 2178, 2310, 2578, 2589-2590, 2598, 2600, 2735, 3267, 3273, 3276, 3290, 3299, 4037-4040, 4046, 4056, 4060-4061, 4080, 4649, 4842, 4848, 5325, 5508, 5538, 5556, 5568-5569, 5602, 5963, 6130, 6134, 6144, 6161-6162, 6410, 6413, 6415-6417, 6422, 6424, 6428, 6447, 7150, 7293-7294, 7298, 7304, 7310, 7315, 7319-7320, 7326-7329, 7334, 7366, 7371, 7482, 7487, 7912, 7915, 8156
application date 138, 140, 143, 2092, 2588, 2596, 3274, 4053-4054, 4811, 5546, 5557, 6427, 7316, 7321-7323
application methods 1501, 2088, 2093, 2381, 2591-2592, 2601, 3272, 3274, 3813, 4846, 7316, 7323, 7908, 7913, 8160
application rates 5548
foliar application 141
models 563
requirements 136, 138, 151, 2380, 4850, 6426, 7936
models 8756
residual effects 1505, 7317-7318
reviews 2381
sources 131, 1502, 2092, 2099, 2593-2596, 2599, 2610, 2613, 3274-3275, 3980, 4055, 4062-4063, 4811, 4846, 7321, 8157-8158, 8160
use efficiency 129, 131, 138, 754, 760, 1461, 1496, 2093, 2591-2592, 4049, 4062-4063, 4811, 5558, 6425, 8757
NPK fertilizers 38, 143, 146, 768, 960, 1493, 3278-3280, 3451, 4058, 4844, 4851, 5545, 5547, 5570, 5572, 5708, 6129, 6143, 6415, 7049, 7056, 7902
application methods 777, 3281
organic fertilizers 134, 5572, 6415, 6430, 7049, 7150, 7487
peat 6424

Maize *cont.*
fertilizers *cont.*
phosphorus 126, 134-135, 142, 468, 520, 775, 795, 959, 1503-1504, 2095-2096, 2100, 2115, 2192, 2598, 2600, 3054, 3276-3277, 4094, 4649, 4651, 4848, 5567-5569, 5571, 6144, 6424, 6428, 6446, 6628, 7059, 7150, 7326-7329, 7333-7334, 7915
application methods 2094, 2097-2098, 3813, 5560, 7324, 7908
requirements 3143, 4850
models 8756
residual effects 1505, 5419, 5565
sources 773-774, 1304, 2094, 2098, 2597, 2599, 2601, 3811-3812, 4652-4653, 4847, 5419, 5559-5566, 8753
use efficiency 1296, 2597, 8757
pig manure 778, 4847
pig slurry 1246, 2087, 6147, 7486
potassium 135, 528, 776, 959, 1504, 2100, 2600-2601, 3277, 4057, 6144, 6424, 7308, 7325, 7328-7329, 7369, 8159
application methods 2097, 7307, 7908
requirements 4849-4850
residual effects 1505
use efficiency 8757
poultry manure 823, 4847, 5555, 5572
residual effects 1505
requirements 8750
rice straw, residual effects 1505
sawdust 5572
seaweed products, foliar application 4871
sewage sludge 146, 1506, 1936, 6635, 7370
application methods 3281
slurries 2735, 4061, 7487
straw 2735, 3451, 6143-6144, 7487
sulphur 144, 959, 2382, 2600-2601, 5571, 6429
application date 4059
residual effects 1307
sources 5563
titanium 7485
trace elements 2100
wheat straw 5539
zeolites 2378
zinc 798, 959, 1310, 1914, 2382, 4851, 5573, 7320, 7329, 7331, 7333, 7902
application methods 2139
foliar application 795, 6431
residual effects 5681
sources 7330
field experimentation, experimental design 7372
flooding 3327
flooding tolerance, growth regulators 6467
flowering 7359
flowers, anthers 2120
frost resistance 7940
fungicides
benomyl 824
captan 6440
carboxin 6440
thiram 6440
gene expression
enzymes 801, 7353
heat shock proteins 3305
proteins 6450
grain
accumulation
nitrogen 131, 4071, 7316, 7323
starch 174
sucrose 174
colour 6456
composition
amino acids 8193
cadmium 1936, 2391
calcium 3278
chromium 1936
copper 1936, 2391, 8160

Maize *cont.*
grain *cont.*
composition *cont.*
growth regulators 803
IAA, determination 4081
iron 8160
lead 1936, 2391
magnesium 3278
manganese 8160
nickel 1936
nitrogen 128, 760, 1507, 2589, 3278, 7300, 7310
oils 6358
organic acids 8786
phosphorus 2096, 2589, 3278, 7310
potassium 2589, 3278, 7310
proteins 4061, 8193
sodium 3278
sugars 803
sulphur 3278
zinc 1936, 2391, 8160
development
measurement 177
water stress 803
endosperm, composition, proteins 5600
enzymes 174, 7351
filling 251, 4087, 7351
hardness 7300
mechanical properties 2650
metabolism, sucrose 174
number 8196
physical properties 8193
quality 7300
determination 3324, 3335
fertilizers 5558
shape, determination 8208
grain drying, temperature 7313
green manures 127, 5555, 6143, 6430, 7487
Azolla 8234
Lablab purpureus 2576
Leucaena leucocephala 2099, 4062-4063
Lotus corniculatus 2101
Medicago sativa 2101, 7305
Mucuna 2576
rape 2735
Trifolium pratense 2101, 4852
growth 2582, 2586
gravity 1532
herbicides 6279
measurement 177
models 179, 1497, 1518, 2119, 4055, 4098, 5554, 5616, 5712-5713
soil compaction 3329
temperature 4088
water stress 1330, 5607, 6466
growth regulators
abscisic acid 803, 1532, 2622, 2626, 2638, 3310, 4093, 4882, 5589, 5594, 5837, 6172, 6456, 6458, 6467, 7358, 8174
ACC 8166
adenosine 6174, 8176
Agrostemin 4048
ATP 7310
auxins 810, 8182, 8195
binding proteins 812, 5591, 5599, 8177
BAS111W 6172
benazolin 808
brassinolide 3316
carboxylic acids 2624
catecholamines 494
chlormequat 1522
cytokinins 4869-4870, 8781
2,4-D 494, 808, 4082, 8182
dicamba 808
ethephon 5546
ethylene 494, 1520, 2126, 2623, 3315, 4866
fusicoccin 4070, 8183-8184
gibberellins 807, 1522, 2566, 8180-8181, 8185
growth inhibitors 5593, 7357
IAA 494, 1532, 4070, 4081-4082, 4093, 5592, 6455, 8182, 8187
binding proteins 5591
IBA 5592, 8182

Maize *cont.*
growth regulators *cont.*
mefluidide 6468
mepiquat 5546
6-methoxybenzoxazolinone 4869
NAA 2623, 4082, 8182
binding proteins 808
NAD 7310
naphthylphthalamic acid, binding proteins 327
platinum complexes 5593
polyamines 791, 6173, 8178
quinclorac 808
seaweed products 4871
semicarbazones, binding proteins 327
triacontanol 6174, 8176
triazoles 6172
zeatin 2116, 4869, 8179
binding proteins 4199
zeatin riboside 4093, 4869
growth stages, classification 5347
gynoecium, protoplasts, ultrastructure 4877
hail 816
harvest index 2589
harvesting
damage 3266, 7311
methods 7311
models 7312
harvesting date 4052, 7311
harvesting losses 1499, 3049, 7311
heat resistance 1418
heat stress 2640, 6465
herbicide safeners 1510, 3094, 4855, 7338
herbicides
acetochlor 3094
alachlor 4969, 5574, 6438
atrazine 772, 1511, 2579, 2590, 4848, 6438, 7337, 8038
butylate 3094
CGA 214372 802
chloramben 6438
chlorsulfuron 3168
clomazone 1510, 2605
2,4-D 2106, 4965
EPTC 3094, 5574
fluazifop 6279
fluazifop-P 6438
fluchloralin 4965
fluroxypyr 6437
glufosinate 3069
glyphosate 3068, 3815, 8164
hexazinone 8802
imazapyr 8802
imazaquin 2605
imazethapyr 2605
isoproturon 4965
linuron 4969
methabenzthiazuron 4965
metolachlor 1511, 2604, 5574
metoxuron 4965
oxyfluorfen 4965
paraquat 791, 2607, 5578, 5606, 8164, 8167
pendimethalin 2106, 4969, 8165
primisulfuron 786, 2106, 2617
propazine 4969
pyridine herbicides 1341
residual effects 4965, 8802
sethoxydim 1512, 4068
simazine 772, 2106, 4969
tebuthiuron 8802
tolerance 2604, 8802
toxicity 2605
triclopyr 8802
tridiphane 6438
hybrid seed production 766
insecticides
DDT 365
HCH 365
malathion 2617
intercropping 7900
Annona squamosa 8739
Brachiaria mutica 8740
Cajanus cajan 6136, 7294
Calliandra calothyrsus 2085
cassava 2310, 6134
Casuarina equisetifolia 515
Coriandrum sativum 4040
cotton 3699

Maize *cont.*
intercropping *cont.*
Crotalaria juncea 6411
Eleusine coracana 7049
Erythrina orientalis 2085
Eucalyptus camaldulensis 8735
Gliricidia sepium 2085
groundnuts 1665, 6134, 8151, 8368
Lablab purpureus 2576
Leucaena leucocephala 2085, 3447, 5707
models 2644
Mucuna 2576
peas 2575
Peltophorum pterocarpum 2085
Phaseolus vulgaris 755, 2575, 4038, 4041-4042
Phyllanthus emblica 8739
potatoes 6414
Psophocarpus tetragonolobus 128
rice 1296, 6134
Ricinus communis 1202
safflower 4040
sesame 3806
Sesbania grandiflora 6411
Sesbania sesban 6411
soyabeans 514, 1296, 4037, 4039
sugarcane 2361, 3805
Trifolium pratense 6413
Trigonella foenum-graecum 4040
Vigna mungo 4036
Vigna radiata 514, 754
Vigna umbellata 6412
Vigna unguiculata 3580, 6411
ion balance 469
irradiation, ultraviolet radiation 1314, 2057, 8197
irrigation 133, 523, 768-769, 1496, 2090, 3268-3270, 3804, 4049-4050, 4844-4845, 5548, 5550, 5552, 6414, 6420, 6422-6423, 7305
basin irrigation 770
centre pivot irrigation 7309
factory effluents 5549, 8744
fertigation 124, 148, 1246, 1501, 8160
furrow irrigation 4646
herbicides 124
Indonesia 8155
models 2584-2585, 5553
saline water 18, 8748
sodic water 767, 8748
sprinkler irrigation 767, 6626, 7321
trickle irrigation 767
irrigation requirements 768, 2090, 3269
irrigation scheduling 3269, 3271, 5551
models 2584-2585, 3270
land use 573, 1344
leaf area, estimation 164
leaf area index 4080, 5569
leaf sheaths, composition, nitrogen 2610
leaf water potential 4880
water stress 2122, 5611
leaves
canopy
evaporation, models 7364
gas exchange 2123
light 2636
models 2631
reviews 2631
microclimate 2643
reflectance 2130, 6463, 7195
solar radiation, models 2644
temperature 2636-2637, 7373, 8202
transpiration, models 2124
water, interception 148
water vapour 2123
composition
boron 7332
calcium 138, 163, 175, 3278, 3301
carotenoids 1822
chloride 163, 7332
chlorophyll 793
elements 8201
iron 2612
magnesium 138, 163, 175, 3278, 4880
nitrates 2113

Maize *cont.*
leaves *cont.*
composition *cont.*
nitrogen 138, 175, 760, 792, 2610, 3272, 3278, 5542, 7332
determination 2084
phosphorus 138, 163, 175, 794, 1504, 3278, 3301, 5542
potassium 138, 163, 175, 1504, 3278, 4849, 4880, 5542, 7332
proteins 2113
sodium 3278
sugars 4880
sulphur 3278, 4059, 6429, 7332
zinc 7332
development 6449
models 804
reviews 1041
electric potential 3319
enzymes 1923, 2116, 2612, 2614, 2618, 2620, 2624, 3308, 3826, 4863, 4867, 4881, 5337, 5581, 5587, 5606, 6452, 7349-7350, 8172
flag leaf
composition
nitrogen 3290, 7316
potassium 7307
growth 163, 2566
growth regulators 2126
salinity 2126
water stress 2122, 5610
growth regulators 2566, 2624
light 1525, 5337
metabolism
carotenoids 1822
chlorophyll 8307
flavonoids 6449
nitrogen 7349, 7925
proteins 2614
sucrose 800
morphology 6458
reflectance 7936
removal 1497, 5554, 6418
respiration 3288, 6443
root pressure 3319
senescence 1525, 2624, 4087, 5606
stomata, guard cells 8434
stomatal movement 8434
stomatal resistance 4880
measurement 1536
models 2132
temperature 825, 5337
transpiration 825
volatilization, nitrogen 7343
light 2113, 3309, 5337, 8760
blue light 810, 1925, 4306, 4878, 8195
far red light 6453, 7352, 8195
interception 8196
red light 810, 2626, 4075, 4878, 6453, 7352, 8195
white light 8197
light intensity 174, 2608, 3453, 4086, 4879, 7013
lodging 143, 5546, 6459
fertilizers 137
resistance 7361
maturity stage, estimation, techniques 4885
metabolic inhibitors 2109, 8055
metabolic regulators
calcium 1519, 1525, 1697, 7341, 8182
binding proteins 168
calmodulin 4070, 4075, 7341
metabolism
amino acids 799, 1531, 7340, 7940
anthocyanins 8197
carbohydrates 1531, 1941, 7340, 8171
chlorophyll 2624, 8307
enzymes 2118
ethylene 3315, 5614
fatty acids 1530, 5797
flavonoids 6449
growth regulators 807, 4870, 5592, 5837, 8179-8180, 8185, 8781
heat shock proteins 2640, 3305

Maize *cont.*
metabolism *cont.*
herbicides 2604, 2617, 3068-3069
lactic acid 2127
nitrates 153
nitrogen 799, 4883, 7925
nucleic acids 801
organic acids 1531
phosphorylation 4306, 7350
potassium 3062
proline 7940
proteins 799, 1925, 2356, 2614, 3304, 4199, 4882, 6450
starch 3823
microclimate 8205
growth chambers 825
mineral nutrition 4650, 8170
aluminium 2111, 2115, 3066, 8168
toxicity 3298, 7348
cultivars 2621
boron 1033, 2152, 2386, 5597
toxicity, models 7289
cadmium, toxicity 3311, 4051, 5576, 6447
calcium 159, 2111, 2611, 5597
copper 145, 4073
diagnostic techniques 3063
fluorine, toxicity 7288
iron 2612
deficiency 4862, 5576, 7342, 7490
sources 6154
lanthanum 2111
manganese 2646
nickel, toxicity 7344
nitrogen 144, 151, 469, 793, 797, 2088, 2112-2113, 2595, 2608, 2611, 3290, 3293-3294, 4074, 4861, 5602, 6161-6162, 6447, 6450, 7345, 7353, 7366, 8055
deficiency 1520
foliar diagnosis 2084, 2610
sources 149, 792, 2114, 2594, 2613, 2635, 3296, 7347, 8050
phosphorus 76, 2115, 2192, 2647, 3306, 4073, 4093, 6655, 6678
deficiency 824, 1515, 1520, 4084
sources 7919
use efficiency 5579
potassium 2611, 3062
sulphur 144, 150
zinc 795-796, 798, 1310
deficiency 824, 965
mineral uptake 3299
boron 2152
cadmium 6447, 7370, 7489
calcium 3291-3292, 3301-3302, 4858
cations 5523
chloride 1514
copper 145, 5579, 7370, 8160
gallium, siderophores 6445
iron 144, 4859, 4862, 6158, 7490, 8160
siderophores 1189, 2609, 6445
lead 7370
magnesium 3302
manganese 144, 8160
nitrogen 125, 131, 141, 152, 538-539, 771, 960, 1321, 1461, 1496, 2087, 2093, 2101, 2178, 2578, 2593, 2608, 2735, 3281, 3289, 3295, 3302-3303, 4047, 4061, 4071, 4846, 4850, 4861, 5539, 5541, 5568, 5572, 5643, 6132, 6425, 6447-6448, 7320, 7323, 7325, 7345-7346, 7348, 7366, 8055, 8150, 8168, 8768
cultivars 8169
models 4055, 6430
sources 2613, 3275, 4062-4063, 7347
use efficiency 4062-4063
phosphorus 144, 539, 820, 1296, 2094, 2096, 2192, 3277, 3301-3302, 4061, 4084, 4850, 5568, 5573, 5579, 6132, 6446-6448, 7324, 7326, 7919
potassium 539, 776, 820, 1514, 2110, 3062, 3277, 3291-3292, 3302, 4047, 4061, 4850, 6132, 6447-6448, 7308, 7325, 7369, 7902, 8178
siderophores 4862
sodium 1514, 6447, 8203
trace elements 3300
zinc 144, 795, 2139, 7320, 7370, 8160
models 8090
mulches 8743
crop residues 1494, 1987, 2088, 7307, 7355, 8152
fly ash 4036
Gliricidia sepium 7304
Leucaena leucocephala 7304
live mulches 756, 1298
Medicago sativa 7305
plastic film 4048, 7306
Premna mucronata 6246
rice straw 4036, 6246, 7308
textiles 4048
multiple cropping 6132, 7052, 7056
barley 1907, 7335
Cicer arietinum 8743
groundnuts 6134
potatoes 5325, 8734
rice 6134
rye 3219
safflower 6136
soyabeans 7902
Vigna radiata 5325, 8734
Vigna unguiculata 8734
wheat 1907, 5325, 6146, 6252, 7335, 7902, 8734
mycorrhizas 824, 2192, 2646-2647, 3330, 3578, 4093-4094, 4883, 5617, 6473
Nigeria 7900
nitrification inhibitors 2596, 3272, 4053, 4056, 5558, 7317, 8160
nitrogen cycle 7343
pests
Diabrotica 1513
Diabrotica virgifera 7359
Diatraea saccharalis 7339
Helicoverpa zea 6435
Heterodera avenae 8304
Ostrinia nubilalis 4037
Pyroderces rileyi 6435
Sitophilus zeamais 6435
Spodoptera frugiperda 6435
pH 2639, 7347
phenology 5393
photoperiod 2113, 2632, 8201
photorespiration 6150, 8760
hydrogen peroxide 7064
inhibitors 7340
photosynthesis 825, 2107-2108, 4848
carbon dioxide 2513, 3453
carbon dioxide enrichment 1656
carbon pathways 4960, 6150, 8664
electron transfer 1917, 5045, 5576
enzymes 4864, 4960, 7350
gas exchange 2624, 2649, 3453, 8760
diurnal variation 7944
growth regulators 2624, 3316
irradiation 1314, 2057
isotope fractionation 3453
light 4086
light harvesting complexes 532, 1472, 1822, 6441, 7920-7921
light intensity 814, 6443, 7013
metabolic inhibitors 156
mineral nutrition 795, 1515, 2613, 5576, 7342
models 1917, 2132
net assimilation rate 2057, 4087
oxygen 6443
photoinhibition 2125, 5337
photosystem I 5045, 5576, 7920
photosystem II 1314, 1917, 4856, 6441-6442, 7920
estimation 4069
temperature 790, 1530, 2125, 2513, 4856
water relations 6421
water stress 2122, 6466
phytochrome 8195
phytotoxins 8762
plant competition 7368
Leucaena leucocephala 1489
weeds 6439
reviews 785
plant density 132, 140, 766, 814, 1498, 2089, 2581, 3273, 4041-4042, 4844-4845, 4879, 5539, 5546, 6418-6419, 6427, 7056, 7300, 7302-7303, 7328, 7368, 8154, 8196
plant height 5610
pollen
composition 4089
actin 809
amino acids 2625, 5598
growth regulators 2625
organic acids 2625
phenylacetic acid 8192
proteins 1521, 2625
vitamins 2625
development 1521, 2120
reviews 167
drying 5598
production 2625
salinity 4089
soil conditioners 4089
temperature 5598
viability 5598
pollen germination 5595
assessment, techniques 8186
growth regulators 7358
salinity 4089
soil conditioners 4089
pollination 166, 1500, 7075, 7359
pollution
cadmium 2614, 3435, 4051, 5355, 5615, 6447, 7370
copper 145, 5355, 7370
fluoride 2095
heavy metals 1936, 6472, 6635
iodine 2395
lead 5355, 7370
oil 823
petroleum 5572
radionuclides 5354
zinc 3435, 7370
precipitation 172, 815, 1493, 2579, 5769, 7362-7363
interception 4202
stem flow 148
production, Lesotho 8312
production possibilities, China, Liaoning 4097
protoplasts
cell division 296
growth regulators 8177
isolation 170
metabolism, nucleic acids 2630
relative humidity 3317
relay cropping, cassava 6134
remote sensing 5714, 7195, 7373, 7957
identification 1342, 7087
polarization 2130
respiration 251, 788-789, 8760
carbon dioxide 2513
growth regulators 3316
growth stages 3288
herbicides 6279
inhibitors 7340
light intensity 6443
measurement 5477
mineral nutrition 1515, 3293, 8050
oxygen 6443
temperature 1529, 2513, 5613
root exudates 965, 3300
organic acids 3299
siderophores 6154
sugars 2109
root meristems, herbicides 1512
root shoot ratio 5554, 5579
root systems 6420
models 2121, 8664
morphology 5603
terminology 5603
root tips
enzymes 799
removal 8178
rooting depth 2577
cultivation 764
roots 6459

Maize *cont.*
roots *cont.*
accumulation
herbicides 8167
nitrogen 3289, 4861
aerenchyma 1520
anatomy 176, 2623, 2634, 3292, 4671, 4876, 7361, 8188
anoxia 2127, 8204
bacteria
nitrogen fixing bacteria 4074
Pseudomonas 5358
cation exchange capacity 3066
cell division 6474
cell membranes
composition, proteins 8189
electric potential 5577
enzymes 5580
ion transport 5577
plasma membranes
composition, lipids 5601
enzymes 5584
ion transport 5584
tonoplast
enzymes 4072
ion transport 4072
cells
composition, phosphorus 4084
Golgi apparatus 176
microtubules 6469
temperature 6469
vacuoles, development 2629
composition
amino acids 4860, 8055
carbohydrates 2114, 3295
copper 5579, 6635
elements 8201
ions 8188
nitrogen 792, 8055
nucleosides 4084
phosphorus 5579
proline 2622
depth 3263, 6171
development 2608, 6446
water stress 3072, 7366
differentiation 1524, 2121
distribution 1909, 3263, 3322
fertilizers 775
soil compaction 2129
soil density 7356
electric field 4872
electrical properties 4873
enzymes 153, 2614-2615, 2621, 3250, 3306, 3315, 4076, 4865, 5582, 5585, 6451, 8175, 8178, 8203
growth 179, 792, 1493, 1524, 2611, 2623, 2639, 3263, 3277, 3294, 3296, 3303, 3315, 3840, 5580, 6171, 6446, 7296, 8170, 8175, 8178
atmospheric pressure 5614
cultivation 764
estimation, techniques 2131
heavy metals 6472
metabolic regulators 1519
mineral nutrition 2111, 3298, 7347
models 3313-3314
pH 7347
salinity 3328
soil compaction 1137, 6470, 7369
soil density 822
soil properties 176
water stress 3072
growth regulators 1520, 2626, 4093, 8178
herbicides 1512
hydraulic conductivity 159, 6454, 7354, 8204
salinity 3328
hypoxia 2127
ion transport 2639, 6451, 8203
caesium 6444
calcium 4858
determination 4858
potassium 4858
proton pump 4072
protons 5612
length 3066
estimation, techniques 2131
measurement 3331

Maize *cont.*
roots *cont.*
light 2626
metabolism
fatty acids 2615
phospholipids 173
proteins 2614
mineral uptake, nitrogen 4860
mitochondria 5575
morphology 2121, 3323, 5602, 7361
pH 2611, 8203
plasma membranes, enzymes 8184
proton pump 2109, 5580
respiration 2639, 3287, 5477, 8050
salinity 8194
siderophores 1189, 4859
size 176, 2634
soil compaction 8793
temperature 1528, 2110, 2121, 3296, 4088, 5612, 6451, 8194, 8201
translocation, nitrogen 3289
tropisms
geotropism 1697
gravitropism 2626, 3318, 4873, 5596, 8187
hydrotropism 3317
ultrastructure 8188, 8194
uptake
growth regulators 791
herbicides 791, 2607, 5578, 8167
insecticides 365
nitrogen 3289
potassium 5580
water stress 2634, 8175, 8194
water transfer 159, 4868
water uptake 3319
xylem 6454, 7354
staining 4096
rotations 263, 510, 539, 575, 5324, 5366-5367, 8304, 8798
barley 126, 2178, 3808
fallow 2086, 6130
groundnuts 767
legumes 2086
Lupinus albus 8156
Medicago sativa 126, 1304, 6417, 7482
Melilotus officinalis 4645
oats 4645, 4842, 6129, 7482
Ornithopus sativus 753
potatoes 5574
rice 5621
Sesbania 6130
soyabeans 125, 1304, 1908, 2085-2086, 2100, 4039, 4044, 4060, 4645, 4842, 6130, 8157
sunflowers 3808
Trifolium 753
Trifolium alexandrinum 6129
Trifolium incarnatum 4054
Trifolium pratense 4645, 7482
Vicia faba 125
Vicia sativa 753
Vigna mungo 6130
Vigna radiata 6130
Vigna unguiculata 6130
wheat 18, 1987, 2100, 2178, 3808, 7482
row orientation 1500, 2586, 6136, 8368
row spacing 7328
salinity 159, 175, 776, 1514, 2126, 2152, 2598, 3328, 4089-4090, 4206, 8194, 8203
models 7289
salt tolerance
cultivars 4091
reviews 4946
seed aging 1529
seed characteristics 2580
seed crops, Somalia 7314
seed development
enzymes 2118, 5586
metabolism 6450
water stress 803
seed germination 1492
cadmium 3311
cultivars 4066
drying 162
enzymes 155, 158, 1516, 2118, 4079, 5583, 5586, 5590
factory effluents 5549, 8744

Maize *cont.*
seed germination *cont.*
growth regulators 8179
herbicides 4969
industrial wastes 558
metabolism 162
growth regulators 6455
proteins 2616, 4079
starch 5590
sugars 4079
relative humidity 161
respiration 789
seed injury 162, 3266
seed treatment 4079
soil compaction 3329
soil water 160
soil water content 7355
storage 2616
temperature 160-161, 4079, 7355
water relations 160
seed injury 162, 3266
seed inoculation
Azospirillum 7319
Azospirillum lipoferum 7371
Azotobacter 7319
bacteria 7371
seed maturation 2580
metabolism 3320
seed production 1500, 6188
cultivars 4066
Somalia 7314
seed quality 1492, 4045, 4100, 6188
harvesting date 4052
seed size 2580
seed testing 4100, 6187-6188
seed treatment
boron 8160
coating 2139, 4048
copper 8160
dipotassium hydrogen phosphate 4079
fermentation products 5590
fungicides 6440
graphite 5590
growth regulators 1522, 7310
herbicide safeners 1510
industrial wastes 558
manganese 8160
molybdenum 8160
potassium nitrate 4079
soaking 4079
zinc 8160
seedbed preparation 757, 4036, 7299
seedling emergence 130, 160, 759, 1492, 2580, 3813, 4052
cultivation 764
herbicides 4969
models 821
soil physical properties 821
soil strength 2642
soil temperature 3264, 5540
soil water content 2642, 7355, 7905
sowing date 5540
sowing depth 7355, 7905
sowing methods 5540
seedlings
composition
lipids 1522
nitrogen 4074
phospholipids 1522
phosphorus 142
sterols 1522
disorders 795
enzymes 153-154, 2118, 3315, 5588, 6453
growth 142, 3315, 4052
cultivation 764
factory effluents 5549
industrial wastes 558
seaweed products 4871
growth regulators 8181
metabolic regulators 165
roots 4052
size 2634
water stress 2634
vigour 4052
seeds
colour 6456
composition
amino acids 8193
elements 8207
fatty acids 3321

Maize *cont.*
seeds *cont.*
composition *cont.*
growth regulators 803
IAA, determination 4081
lipids 1522, 4670
nitrogen 128
oils 1328, 4670, 6358
reviews 3320
proteins 169, 811, 3321, 4061, 4670, 5558, 6104, 8193
reviews 3320
sugars 803
drying, temperature 162
embryos 162
composition, lipids 4085
damage 3266
enzymes 2117, 5583, 5586
physical properties 2628
temperature 2628
water relations 2628
endosperm 8193
cell division, water stress 803
composition, proteins 5600
enzymes 158, 5586
metabolism
proteins 6450
starch 8773
enzymes 161, 1529, 2118, 3307, 4077, 5588
imbibition 162, 789
leakage, electrolytes 7071
mechanical properties 2650
metabolism
lipids 4670
nucleic acids 162
oils 4670
reviews 3320
proteins 4670
reviews 3320
mitochondria 162
moisture content, determination 3332-3334, 7375
physical properties 8193
respiration 162, 789, 1529
scutellum 8207
storage 2616
relative humidity 161
temperature 161
translocation 535
ultrastructure 1328
viability 161, 2616, 4085, 7313
vigour 162, 7313
models 5544
shading 251, 814, 2608, 8196
shoots
accumulation, nitrogen 2091
composition
aluminium 2115
calcium 3278
carbohydrates 2114
copper 5579, 6635
magnesium 3278
nitrogen 2091, 2114, 3278
phosphorus 2115, 3278, 5579
potassium 3278
proline 2622
sodium 3278
sulphur 3278
enzymes 2622, 4076
growth regulators 4093
mitochondria, composition, proteins 8191
temperature 4088
volatilization, nitrogen 7343
soil
aluminium 76, 1115
calcium 3840
erosion 2128, 6464, 6471
nitrogen 151-152, 3290, 5542
phosphorus 142, 794, 1504, 2096, 3054, 3143, 5542, 6182
potassium 776, 1504, 4057, 4851, 5542, 7307
resistance to penetration 3329
sulphur 794
zinc 798, 1914
soil amendments
composts 5567
crop residues 5539
dolomite 2641, 7332

Maize *cont.*
soil amendments *cont.*
factory effluents 7917
farmyard manure 6431
filter cake 6431
gypsum 1115
humic acid 2115
industrial wastes 7332
lime 38, 1033, 1115, 5573, 6431, 7332-7334
magnesian limestone 6146
plant residues 5567
poultry manure 823
wheat straw 5539
zeolites 2736
soil compaction 176, 758, 820, 1137, 1490, 2129, 3046, 3315, 3322, 3329, 3841, 4092, 5717, 6470, 7296, 7369, 8793
models 7312
soil conditioners 4089
polyacrylamide 6432
soil conservation 1494, 6413
terraces 1383
soil density 822, 4092, 7904
soil depth 5552
soil erosion 2641, 8312
soil fertility 6410
soil inoculation
Azotobacter 7329
bacteria 150
Glomus 6473
Glomus etunicatum 5617
microorganisms 4862
mycorrhizas 2192
soil pH 7333
soil physical properties 2642
soil properties 2128, 8198
soil temperature 130, 132, 1492, 3263-3264, 5540, 6446, 7297, 8198
soil types 757, 778, 798, 2178, 4044, 4049, 6182, 6420, 7344
peat soils 7077
soil water 817, 3263, 3271, 3326, 4087, 6319, 7904, 8174
soil water balance, China, Yunnan 4146
soil water content 130, 2636, 2642, 6464, 7297, 7370, 7905
solar radiation, use efficiency 4263
sowing, comparisons, transplanting 4047
sowing date 759, 765, 1665, 2105, 2582, 3219, 3268, 3273, 4046, 4087, 4092, 5540, 5547, 7056, 7300-7301, 7306, 7355
sowing depth 4048, 7355, 7905
sowing methods 1494, 1526, 4043, 7908, 8743
drilling 3125
sowing rates 1493, 1498, 5545, 7300-7301
space science 1532
spacing 132, 140, 766, 1495, 2583, 3267, 4646, 7302-7303, 7308, 8154, 8368
stems
accumulation, sucrose 174
composition
calcium 3301
nitrates 797
nitrogen 792, 2610
phosphorus 3301
diameter, measurement 177
respiration 3288
sterility, fertilizers 137
stomatal resistance
growth regulators 5589, 8174
models 5589
water stress 5589
strip cropping, *Leucaena leucocephala* 1489
submergence, models 3079
tassels, respiration 3288
taxonomy 1534, 8206
techniques, roots, length, measurement 805
temperature 825, 1418, 1528, 2090, 2110, 2125, 2513, 2632, 3453, 4088, 4203, 4856, 4881, 4973, 5337, 5612, 5769, 6451, 6469
growth stages 4973
heat sums 3264, 3273, 4885, 4974
determination 7367

Maize *cont.*
tillering 792
fertilizers 4058
tissue culture
cold resistance 2638
embryo culture 5604, 6461-6462
growth regulators 494, 2638
organogenesis 6461
regeneration 3325
regenerative ability 813
topography, slope 7309
translocation 4050
amino acids 4876
cadmium 2391
calcium 1528, 3291-3292, 4088, 7341
carbohydrates 251, 1941
chloride 1514
copper 2391
diamines 2606
herbicides 8167
lead 2391
nitrogen 1528, 3289, 3304, 4071, 4088, 4861, 4883, 7323
phosphorus 4088
potassium 1514, 1528, 2110, 3291-3292, 4088
proteins 1415
sodium 1514
source sink relations 174, 251, 4087
sugars 4876
zinc 795, 2391
transpiration
diurnal variation 7944
water stress 2122
transplanting, comparisons, direct sowing 4047
tropisms
electric field 4872
geotropism 1697, 4083
calcium 4669
gravitropism 2626, 3318, 4872-4873, 5596-5597, 8187
hydrotropism 3317
phototropism 810, 4083
thigmotropism 1519
undersowing 2088
water conservation 1526
water relations 3310, 4203, 8202
reviews 1330
water requirements 2090, 6319, 7070, 7362-7363, 8155
water stress 173-174, 2633-2636, 3072, 3270-3271, 4880, 4973, 5589, 5610-5611, 5617, 6456, 6465, 7366, 8155
determination 4203
growth stages 4973, 5607
models 5608-5609, 7364
reviews 1330, 7365
water supply 1344, 4862, 5605, 6319
water table 2633, 3326, 6421
water transfer 3310
water uptake 6470, 8204
water use 133, 523, 769, 2577
water use efficiency 769, 2577, 4048, 4649, 5708, 6420-6421, 6423, 7325
weather, models 5616
weed control 756, 1298
cultivation 784, 1511, 5574, 6438, 7337
cultural control 5574, 7337
herbicides 772, 1511, 2106, 2590, 3286, 3815, 4067, 5574, 6437-6438, 7337, 8038, 8164-8165, 8800
integrated control 3815, 6438, 7337
manual weed control 772, 782, 784, 2579, 2590, 3815, 6437, 7337, 8038, 8800
weeds
Ageratum conyzoides 2106
Bidens pilosa 4041
Brachiaria xantholeuca 2106
Convolvulus arvensis 6437
Corchorus olitorius 6437
Cynodon dactylon 2106
Cyperus 8038
Cyperus esculentus 5574
Digitaria sanguinalis 8038
Echinochloa crus-galli 8038
Eupatorium 3815

Maize *cont.*
weeds *cont.*
Euphorbia geniculata 6437
Imperata cylindrica 3815
Lantana camara 3815
Melampodium divaricatum 4041
Melanthera aspera 4041
Mimosa pudica 2106
Panicum dichotomiflorum 8038
Pharbitis purpurea 6437
Portulaca oleracea 6437
Rottboellia cochinchinensis 6439
Setaria pumila 8038
Sorghum halepense 4067
Xanthium brasilicum 6437
wind 143, 818-819
winter hardiness 7940
xylem
composition
malic acid 2594
nitrates 2594
yield components 2588, 3267, 4050
cultivars 6412
plant density 6419
yield correlations 568, 4065, 4080
cultivars 152
yield forecasting 568, 2743, 4099
computer software 4884
models 2584, 5609
remote sensing 3858
yields
climate 171, 2743
determination 7374
economics 1605
estimation 2128
stability 172
statistical analysis 4095
trends
India 3803
USA, models 827
USA, Illinois 1508
water table, models 2633, 2648
weather 171
Malawi
agroforestry 8735
groundnuts 8359, 8364
reports, Makoka Agricultural Research Station 2412
sugarcane, cultivars 7029
Malaysia, rice, sowing, mechanization 836
Mali
cotton, farming systems 2314
farming systems 4638
fertilizers 4650
land use 4650
Pennisetum glaucum, cultivars 4189
Manihot (*see* Cassava)
Mauritius
potatoes, cultivars 1782
reports, Tobacco Board 8813
sugarcane, cultivars 3034, 4615, 4622
Mechanization, Africa 2196
Mediterranean countries, climatic change, land use 4687
Metabolic regulators
calcium, reviews 1320, 3821
calmodulin, reviews 1320, 3821
Metabolism
amino acids, reviews 1323, 1920
books 1964, 3112-3113, 7983
carbohydrates, stress, reviews 7924
carotenoids, books 8831
cellulose 3112
conferences 4695
cutin 8775
enzymes 1924
models 4825
fatty acids, models 5275
fructans 3112
glyoxylic acid 1923
growth regulators, reviews 5837
lipids 3822
models 5275
reviews 542
nitrogen
ammonium nitrogen, reviews 540
books 5389
reviews 537, 3818
oils 3112
phenolic compounds, reviews 3830
phosphorus, reviews 6163

Metabolism *cont.*
phosphorylation, reviews 543
proline, reviews 541, 8771
proteins 3112
proton pump 5339
reviews 3070
starch 1921, 3112
reviews 3823
sterols, books 597
sucrose 3112
sulphur, reviews 2401, 3820
Mexico
potatoes, production possibilities 8543
soyabeans
climate 4262
cultivars 7521
production possibilities 4262
Microscopy, books 8832
Millets (*see also* individual species)
cultivars, CASRI Millet-2 962
metabolism, potassium 3062
mineral nutrition, potassium 3062
mineral uptake, potassium 3062
weed control
herbicides 8800
manual weed control 8800
Mineral nutrition
books 593
nitrogen, reviews 537
Mineral uptake
cadmium, models 7489
calcium 537
conferences 4694
magnesium 537
nitrogen 537, 2405
potassium 537, 3062
reviews 1919, 1926, 6155
sulphur, reviews 2401
Miscanthus, production possibilities, UK 5321
Models
agricultural meteorology 1351, 4689
temperature 7963
air pollution 1439
barley
climatic change 1940
fertilizers
nitrogen 105, 1386
phosphorus 105
growth 2738
lodging 2571
mineral nutrition 7947
boron, toxicity 7289
photosynthesis 1917
rotations 7245
salinity 7289
salt tolerance 8142
seed treatment, irradiation, infrared radiation 80
soil
erosion 8083
nitrogen 1386
water relations 1480
water use 2078
yield losses, diseases 3241
yields 4834
estimation 1488
books, crop management 4702
Brassica campestris
dry matter accumulation 1251
growth 1251
Brassica juncea
dry matter accumulation 1251
growth 1251
Cajanus cajan, submergence 3079
cell walls, growth 2388
cereals
fertilizers 8751
grain, development 966
growth 5712-5713
soil amendments, lime 8751
soil fertility 8751
yield forecasting 2747, 7966
yields 7948
weather 3102
chlorophyll, fluorescence 2404
Cicer arietinum, yields 5122
climate, Canada 7963
climatic change 2694, 3103, 5361
Czechoslovakia 3847
USA 577-579, 581

Models *cont.*
cotton
crop management 5236
diseases 1188
energy exchange 8623
fertilizers, nitrogen, application methods 5236
irrigation scheduling 1173
leaves
canopy
development 1823
distribution 1823
photosynthesis, water stress 5229
roots
growth 6912
water uptake 6912
translocation, growth regulators 7811
crop production, resource utilization 1347
cropping systems 6131
evapotranspiration 7939
fertilizers
nitrogen
requirements 8756
use efficiency 8009
phosphorus, requirements 8756
requirements 3276
use efficiency 3053
fodder beet, climatic change 1940
groundnuts
heat resistance 8398
plant density 309
seeds, moisture content 4291
submergence 3079
growth 1325, 5988, 6170, 6191, 7931
books 600
growth regulators 6169
Hibiscus cannabinus, growth 3725-3727, 6045-6046
intercropping 2644
irrigation 4678
land use 8090
leaves
canopy 4674
energy balance 7964
light, interception 5338
reflectance 3096
solar radiation 2644, 3104
stomatal resistance 8148
temperature 2637
stomatal resistance 2132
water content 4840
legumes, yield forecasting 7966
light, determination 7101
Lupinus albus, nodules, diffusion, oxygen 373
maize 8090
agricultural meteorology 1535
apical meristems, temperature, estimation 826
climatic change 5769
defoliation 1497, 5554
drought 8199
evapotranspiration 2584
estimation 1527
fertilizers, nitrogen 563
growth 179, 1497, 1518, 2119, 4055, 4098, 5554, 5616, 5712-5713
harvesting 7312
irrigation 2584-2585, 5553
sprinkler irrigation 6626
irrigation scheduling 2584-2585, 3270
leaves
canopy
evaporation 7364
light 2631
transpiration 2124
development 804
mineral nutrition, boron, toxicity 7289
mineral uptake, nitrogen 4055, 6430
photosynthesis 1917
root systems 2121, 8664
roots, growth 3313-3314
salinity 7289
seedling emergence 821
seeds, vigour 5544
soil compaction 7312
stomatal resistance 5589
submergence 3079
water stress 5608-5609, 7364
weather 5616

Models *cont.*
maize *cont.*
yield forecasting 2584, 5609
yields
trends, USA 827
water table 2633, 2648
metabolism
enzymes 4825
fatty acids 5275
lipids 5275
mineral uptake, cadmium 7489
oats
grain
filling 3990
weight 3990
growth 2738, 3991
leaves, canopy, energy balance 5488
mineral nutrition 7947
yield forecasting 3864
peas
chemical composition, proteins 1683
photosynthesis 1917
photosystem II 1683
seed production 325
Pennisetum glaucum
submergence 3079
yield forecasting 7478
Phaseolus vulgaris, water use 2078
phenology, books 5393
photorespiration 8767
photosynthesis 534, 2132, 2404, 3882
gas exchange 8761
light 5338
plant nutrition 1319
nitrogen 2385
plant physiology, books 600
potatoes
climatic change 1940
drought resistance 2303
evapotranspiration 2305
fertilizers 2930, 8751
growth 5988, 8554
computer software 1158
herbicides, damage 8568
irrigation scheduling 5200, 5944
leaf area 4491-4492
mineral nutrition 7947
photosynthesis 2300
soil amendments, lime 8751
soil fertility 8751
temperature, heat sums 417
tubers
growth, temperature 6877
initiation, temperature 6877
size 7728
water stress 5200
yield forecasting 7732
yields 1430, 5206, 7948, 8591
weather 3102
precipitation 2408, 3103
forecasting 4675
rape
climatic change 1940
dry matter accumulation 1251
growth 1251
mineral nutrition 7947
water use 5270
yields, weather 3102
remote sensing 1664, 5363
respiration 8761
rice 5383
crop husbandry 8278
development 2154
growth 2154, 2697, 7441
growth stages 7423
irrigation scheduling 837
mineral uptake 3380
morphology 2154
photosynthesis 887
plant competition 3372
intraspecific competition 1561
weeds 1562, 4130
temperature 2694
weather 927
yield forecasting 912, 927, 929, 2697, 3864, 4162, 4954
root meristems, growth 4664
roots
development, water stress 3072
growth 7930
morphology 5346
Models *cont.*
rotations 510
rye
grain, quality 2529
mineral nutrition 7947
salinity 4678
sorghum
crop husbandry 6580
evapotranspiration 1590
fertilizers, nitrogen, use efficiency 563
growth 1590, 5712-5713, 7444
irrigation, sprinkler irrigation 6626
irrigation scheduling 1590
leaves
canopy, development 7462
growth, temperature 7464-7465
senescence, temperature 7466
roots
growth 7463
water relations 5689
seedling emergence 942
soil, erosion 2744
soyabeans
agricultural meteorology 1535
air pollution, ozone 7551
climatic change 5769
evapotranspiration 306
fertilizers, nitrogen 563
flowering 8345
flowering date 5752
growth 292, 1007, 7557
leaves
canopy
energy relations 2791
reflectance 8353
nodules, diffusion, oxygen 373
pests, *Heterodera glycines* 1629
photosynthesis 4992-4993
rotations 7245
sowing date 2753
water management 8321
water stress 1007, 7551
water uptake 2781
water use 306
weed control 2762
yield forecasting 3864, 7557
yields
seasonal variation 1007
water table 2648
weather 1007
sugarbeet
fertilizers 8751
growth 1138, 2288, 2917, 4442, 5159
mineral nutrition 7947
plant competition, weeds 1130
remote sensing 5159
soil amendments, lime 8751
soil fertility 8751
yields, weather 3102
sugarcane, yield forecasting 3801, 7895
sunflowers
growth 459-460, 7809, 7815
mineral nutrition 7809
nutation 6062
root systems 8664
soil, erosion 2744
soil water content 7816
translocation, growth regulators 7811
yield forecasting 2987
yields 7815-7816
sweetcorn, mineral uptake, potassium 181
temperature 3103
forecasting 4675
heat sums, estimation 7965
tobacco
cells, growth 1257
leaves, water content, determination 7870
stems, mechanical properties 1255
translocation 2385
xylem 5340
transpiration 2124
light 5338
turnips, seed germination 7707, 8541
Vigna unguiculata
growth 5100, 5102
submergence 3079
yields 5100
water balance 2408
wheat 8090
Models *cont.*
wheat *cont.*
agricultural meteorology 6335
air pollution, ozone 1439
climatic change 1940, 2506, 2514-2516
development 58-59, 2516, 4762
temperature 2506
fertilizers
nitrogen 1386, 3903
application date 617
application methods 2445
requirements 617
phosphorus 697
flowering date 7123
grain
moisture content 7220
position 5470
weight 5470
growth 58-59, 654, 670, 701, 1138, 1421, 2042, 2697, 2738, 3209, 4442, 4762, 5712-5713, 6191, 6334, 7188, 7214
harvesting losses 2437
irrigation, sprinkler irrigation 6626
leaves, growth 1419
lodging 6249
mineral nutrition 2486, 7947
nitrogen 698
mineral uptake
nitrogen 654, 698
potassium 661
plant competition, weeds 1406
seed treatment, irradiation, infrared radiation 80
soil
erosion 2510, 2744, 8083
nitrogen 698, 1386
soil water 65
solar radiation 3975
sowing date 7123
spikelets, position 5470
spikes
development 2042
growth 2042
submergence 3079
temperature 2694, 3975
heat sums 58
water stress 681
water uptake 7182
water use 3180
weather 671
yield forecasting 82, 2520, 2697
yield losses 8043
yields 65, 1430, 3903-3904, 6191
Canada, Saskatchewan 3145
climate 3975
yield forecasting 1351
yields 1319, 2408, 6191, 7931
climatic change 4689
seasonal variation 7213
soil compaction 3085
Moldova, sugarbeet, cultivars 4433
Mongolia
climate 1349
crop husbandry 1349
rotations 512
wheat, soil conservation 1349
Morocco
agricultural meteorology
barley 968
maize 968
wheat 968
Mucuna
enzymes, lyases 5912
leaves
development 5912
emission, hydrocarbons 5912
enzymes 5912
Mucuna deeringiana
leaves, emission, hydrocarbons 8523
photosynthesis
carbon dioxide 8523
gas exchange 8523
light 8523
Mucuna pruriens
allelopathy 7692
chemical composition, amino acids 7692
mineral nutrition
aluminium, toxicity 4419
calcium 4419

Mucuna pruriens cont.
mineral nutrition *cont.*
phosphorus 4419
roots, growth, mineral nutrition 4419
Multiple cropping
barley 4515, 7335
Brassica juncea 2720, 6078, 7052
Brassica nigra 3043
buckwheat 1907
Cicer arietinum 513, 4640-4641, 7903, 8284, 8733, 8743
cotton 513, 4515
Cyamopsis tetragonoloba 8734, 8743
Eleusine coracana 3043, 6138
Eragrostis tef 7901
groundnuts 4640-4641, 6134, 6138, 6699, 7052, 7056, 7903, 8379
Linum usitatissimum 513, 7903
maize 1907, 3219, 5325, 6134, 6136, 6146, 6252, 6699, 7052, 7056, 7335, 7902, 8734, 8743
peas 513
Pennisetum glaucum 1907, 2720, 7056, 8743
Phaseolus vulgaris 6252, 7901
potatoes 5325, 6138, 7052, 7901, 8734
rape 1907, 8458, 8666
rice 513, 1538, 3043, 5849, 6134, 6140, 7052-7053, 7056, 8240
rye 3219
safflower 4640-4641, 6136, 7056, 7903, 8733
sesame 7052-7053, 7903
Sinapis alba 7053
sorghum 1907, 4640-4641, 6252, 7056, 8284, 8733, 8743
soyabeans 272, 1907, 3043, 3465, 3910, 6252, 7497, 7546, 7902, 8734
sunflowers 513, 4640-4641, 7903
turnips 1907
Vigna mungo 513, 7052-7053
Vigna radiata 5325, 5849, 6078, 6140, 6765, 7052-7053, 8240, 8458, 8734
Vigna unguiculata 7052-7053, 8734, 8743
wheat 272, 513, 1538, 1907, 3043, 3910, 4640-4641, 5325, 6140, 6146, 6252, 7053, 7056, 7335, 7497, 7902, 8379, 8734
Triticum durum 8666
Mung beans (*see Vigna radiata*)
Mycorrhizas
Brassica nigra 3005
Cajanus cajan 5881
Canavalia gladiata 4411
cassava 4508, 6016
Cicer arietinum 2887, 3601, 8501
cotton 3578
groundnuts 3578
jute 3723
Lablab purpureus 2798
Linum usitatissimum 4554
maize 824, 2192, 2646-2647, 3330, 3578, 4093-4094, 4883, 5617, 6473
peas 3538, 4320
Pennisetum glaucum 7470
Phaseolus vulgaris 4351, 4424
potatoes 2949, 4489
reviews 3091, 3849
rice 238-239, 926, 3358
sorghum 257, 7470, 7555
soyabeans 2192, 2798-2799, 3501, 3578, 4424, 7555
water stress 4373
sweet potatoes 5215
tobacco 3578
Vicia faba 4424
Vigna radiata 1083, 3578, 4384
Vigna unguiculata 2878
water stress 4373
wheat 3206, 3976, 3978, 4787
Triticum durum 3206
Namibia, groundnuts, crop husbandry 8360
Nematicides
aldicarb
barley 4014
groundnuts 4283
potatoes 4014
soyabeans 1628, 4014, 4236-4237, 5731-5732
carbofuran, groundnuts 7575
Nematicides *cont.*
1,3-dichloropropene, tobacco 6090
oxamyl, potatoes 2296
Nepal
agricultural research 7089
barley, cultivars 5511-5512
buckwheat, cultivars 5511, 7049
Eleusine coracana, cultivars 7049
groundnuts, cultivars 3508
Guizotia abyssinica, cultivars 3508
reports, Pakhribas Agricultural Centre 3508, 5369
rice
crop husbandry 5619
cultivars 5619
sorghum, cultivars 7049
wheat
crop husbandry 6221
cultivars 6267
Netherlands
agricultural meteorology 4707
barley
crop management, expert systems 1295
cultivars 7261-7262
grain, quality 7291
cereals, cultivars 6148-6149
farming systems, organic farming 4686
fodder crops, cultivars 6148-6149
legumes, cultivars 6148-6149
Linum usitatissimum, cultivars 6148-6149
maize, cultivars 6148-6149
Papaver somniferum, cultivars 6148-6149
potatoes
crop management, expert systems 1295
cultivars 6148-6149
production possibilities 2948
rape, cultivars 6148-6149
sugarbeet
crop management, expert systems 1295
cultivars 6148-6149
triticale, cultivars 4000
wheat, crop management, expert systems 1295
New Zealand, climatic change 3448
Nicotiana rustica (*see* Tobacco)
Nicotiana tabacum (*see* Tobacco)
Niger
fertilizers 2379
groundnuts, cultivars 8380, 8398
Pennisetum glaucum, cultivars 7473
Vigna unguiculata, cultivars 7473
Niger seed (*see Guizotia abyssinica*)
Nigeria
Hibiscus cannabinus, cultivars 6919
maize 7900
Pennisetum glaucum, cultivars 5700
reports
International Institute of Tropical Agriculture 3106, 5370-5371, 6218, 7975
National Cereals Research Institute 7974
rice, cultivars 7433
soyabeans 7900
Vigna unguiculata 7900
Nitrogen fixation 2405
Azolla caroliniana 5322
Azolla pinnata 5322
barley 2745, 6407
Cajanus cajan 5881
cultivars 6800
cereals 2746
reviews 1939
Cicer arietinum 4394
cultivars 367
growth regulators 1100, 6809
herbicides 5121
light 3600
sucrose 3600
water stress 3599
conferences 586
Cyamopsis tetragonoloba, mineral nutrition 5137
groundnuts 7573, 8151
mineral nutrition 2820
soil types 1028
legumes 2746
books 7108
Nitrogen fixation *cont.*
legumes *cont.*
fertilizers 2265
mineral nutrition 2383
reviews 8526
Lens culinaris 2902, 7044
estimation 8507
Lupinus albus 1110, 3617, 4407, 5897
mineral nutrition 2222
Lupinus angustifolius 5897
mineral nutrition 3609
Lupinus cosentinii 5897
Lupinus luteus 374, 3617, 5426
Pachyrhizus ahipa, growth stages 1166
peas 1702, 2902, 3045, 3617, 4320, 6829, 7044
mineral nutrition 2221, 2834
sowing date 6713
Phaseolus vulgaris 2243, 3486, 4348, 4350
cultivars 2868
measurement 7650
potatoes 6000
rape, mineral nutrition 3609
reviews 560-561
rye 2745
Sesbania aculeata 8518
Sesbania bispinosa 2263
Sesbania cannabina 2263, 5918
Sesbania rostrata 1114, 5141, 5909
Sesbania speciosa 2263, 5141
Sesbania tetraptera 2263
soyabeans 1013, 1660-1661, 2183, 2797, 3486, 3493, 3498-3499, 3501-3503, 3617, 4269, 5014, 5016, 5724, 5737, 5771, 5773-5774, 5777, 5918, 6497, 6677, 6829, 7507, 7509, 7553, 8333, 8344, 8352
cultivars 2796, 3504, 5776
estimation 4267
fertilizers 984, 7503
growth stages 5015, 5776
irrigation 7503
mineral nutrition 301
pests 4990
phytoalexins 7554
reviews 304-305, 8526
soil types 301
sugarcane, reviews 7894
techniques
estimation 8507
measurement 7650
triticale 6407
Vicia faba 374, 1056, 2902, 6829, 7044
amino acids 2229
cultivars 3543
herbicides 1707, 2847
mineral nutrition 2222
salinity 1055
Vigna radiata
fertilizers 6773
salinity 5098
Vigna unguiculata 353, 3588
wheat 695, 2745
estimation 696
Nodulation
Cajanus cajan 4389-4390, 5881
fertilizers 6796, 6800
Canavalia gladiata, mycorrhizas 4411
Cicer arietinum 6812, 8488, 8499-8501
fertilizers 4398, 6827, 8487
growth regulators 1100, 6809
herbicides 5121
groundnuts 1754, 4290, 5038, 6823, 7573, 7584
fertilizers 4278, 5037
mineral nutrition 2820
Lablab purpureus 2798
legumes
fertilizers 2265
growth regulators 8527
mineral nutrition 2383
reviews 2901
Lens culinaris
fertilizers 6827, 8503
irrigation 7676
Lupinus albus 4407
fertilizers 6827
mineral nutrition 2222
Lupinus luteus 374
Pachyrhizus ahipa 1166

Nodulation *cont.*
peas 1702, 3520, 4423
enzymes 6727
fertilizers 2824
growth regulators 3537, 5809
light 3537
mineral nutrition 2221
mycorrhizas 3538
Phaseolus 4423
Phaseolus lunatus 1754
cultivars 4422
Phaseolus vulgaris 1754, 4038, 4350, 8454
cultivars 2868, 3566, 5844
fertilizers 339, 7636
soil pH 6763
temperature 2242
Psophocarpus tetragonolobus 6822
reviews, growth regulators 8527
Sesbania aculeata 8518
Sesbania rostrata 8519
stem nodules 1114, 1294
soyabeans 302-303, 1013, 1616, 1658, 1660-1662, 1754, 2794, 2797-2798, 3493, 3498, 3500, 3502-3503, 4217, 4268-4269, 5014-5015, 6497, 6823, 7509, 7511, 7553, 8315, 8333, 8344, 8352
cultivars 2796, 3504
fertilizers 300, 1659, 2755, 4979, 5037, 5775, 6638, 6678, 7503
insecticides 2795, 5013
irrigation 7503
pests 4990
plant density 4979
reviews 6679
salinity 6676
soil amendments 6678
sowing date 6638
Vicia 4423
Vicia faba 374, 1056
herbicides 1707, 2847
mineral nutrition 2222
salinity 1055
Vigna mungo 5144, 6823, 7664, 8479
fungicides 5868
insecticides 5868
mineral nutrition 8478
Vigna radiata 5144, 5845, 6769
antibiotics 6777
fertilizers 6773
Vigna umbellata 5144, 6823
Vigna unguiculata 353, 1754, 3588, 4376
fertilizers 5860
wheat 2055
Nodules, metabolism, books 5390
Nutrient uptake (*see* plant nutrition, under specific crops see mineral nutrition and mineral uptake)
Nutrition, books 1368
Oats
agricultural meteorology 4707
Irish Republic 3118
UK 3118
air pollution, sulphur dioxide 3994
allelopathy 1333
Dactylis glomerata 7941
maize 7941
rye 7941
sorghum 5345
altitude 4204, 8794
cultivars 6338-6339
anoxia 8311
Avena byzantina 3064
Avena nuda 3981
biomass production 10
carbon dioxide 2064, 6346
cell culture, protoplasts 3994
cell membranes
plasma membranes 3993
enzymes 8097
ion transport 8097
metabolism 88
permeability 8097
steroids 89
tonoplast
enzymes 86, 5482
ion transport 86
cell walls
composition, proteins 8100
growth 8100
Oats *cont.*
cell walls *cont.*
metabolism, cellulose 6345
cells
microfilaments 4797
organelles, secretion 5485
chemical composition
boron 6162
cadmium 91, 2391, 7231
determination 709
calcium 4010, 6161
copper 2391, 2525, 6162
elements 6337, 8103
iron 6157, 6162, 7230
lead 91, 2391
lithium 549
magnesium 4010, 6161
manganese 6162, 7230
metals 6337
molybdenum 6162
nitrogen 4010, 6161, 7230
phenolic compounds 5484
phosphorus 4010, 6161
potassium 4010, 6161
proteins 7227
sodium 6161
titanium 7485
zinc 2391, 6162
chloroplasts
enzymes 4794
light 4793-4794
metabolism
fatty acids 4307
nitrogen 5342
proteins 4794
thylakoids, proteins 6343
translocation, carboxylic acids 4792-4793, 5342
climate, Australia, Western Australia 6125
coleoptiles
cell membranes
growth regulators 8096
ion exchange 8096
growth 901, 1448, 7662, 8098
temperature 5487
growth regulators 1448, 4797, 7662, 8098
metabolic inhibitors 4797
pH 1448
tropisms, gravitropism 8099
cover crops
Medicago sativa 7482
Trifolium pratense 7482
Trifolium repens 1458
crop residues, remote sensing 3979
cultivars
Belarus 3214
Brazil, Rio Grande do Sul 3982
classification 562
Denmark 8758
Finland 7226
Italy 2059-2060, 8092
mixtures 4790
Poland 6338-6339
USA
Alabama 4968, 8303
Arkansas 8091
AC Hill 2522
AC Lotta 2523
AC Stewart 2524
Akiwase 3983
Beluri 963
Belwi 6632
Bitik 6340
Ebène 706, 963
Enterprise 8093
German 3235
Jaugila 6341
Lustre 963, 6632
Nobby 8094
Panfive 4791
Riel 3215
SIR4 3984
cultivation
chiselling 1910
conservation tillage 10
methods 7222
minimum tillage 764, 1910
no-tillage 764, 1909, 3046
ploughing 10, 764, 1910
Oats *cont.*
cultivation *cont.*
subsoiling 1910
cutting 3982
cutting date 3449
cutting frequency 3213
disease control 4639
cultural control 957
diseases
barley yellow dwarf luteovirus 8095
Pyrenophora avenae 8095
drainage 8807
drought 5486
dry matter accumulation 3211
enzymes
adenosinetriphosphatase 86, 3988, 8097
amylases 8311
carboxy-lyases 2062
catalase 4795
glucose-6-phosphate dehydrogenase 3989
lyases 6345
nitrate reductase 266, 4795, 5446
oxidoreductases 3989
peptide hydrolases 4794
pyrophosphatases 5482
ribulose-bisphosphate carboxylase 3986
superoxide dismutase 4795
transferases 2526, 3216
evapotranspiration 2064
fertilizers
boron 1606
composts 4639
copper 8103
farmyard manure 1910, 2442, 4639, 5333, 7222, 7916, 8807
nitrogen 10, 84, 704, 719, 1447, 1449, 1604, 2442, 2521, 3058, 3211, 3990, 4010, 4798, 6161-6162, 7222-7223, 7280, 7914
residual effects 2988
sources 5446, 7224
use efficiency 7224
NPK fertilizers 1910, 2527, 4639, 4816, 5708, 6129, 7916, 8807
organic fertilizers 7916
phosphorus 705, 1447, 2525, 4010, 7222
requirements 3810
residual effects 3604
sources 1304, 5481
pig slurry 3058
potassium 705, 1447, 2061, 4010, 7222
sewage sludge 1936, 5333, 6635
sheep manure 7916
straw 2527, 4816, 7916
titanium 7485
trace elements 3814
zinc, foliar application 6337
fungicides, triadimefon 2739
gene expression
chlorophyll *a/b* binding proteins 1451
light 1451
phytochrome 1451
grain
composition
amino acids 1447
boron 2739
cadmium 709, 1936, 2391, 2740
chromium 1936
copper 1936, 2391, 2739
glucans 4798
lead 1936, 2391, 2739-2740
manganese 2739
nickel 1936
phosphorus 3604
polysaccharides 7229
proteins 1447
sulphur 3987
zinc 1936, 2391, 2739
filling, models 3990
naked grain 3211
quality, sowing date 3982
weight, models 3990
green manures
Anthyllis vulneraria 2535
Lotus corniculatus 2535
Medicago sativa 2535, 7482

Oats *cont.*
- green manures *cont.*
  - *Onobrychis viciifolia* 2535
  - *Sinapis alba* 4816
  - *Trifolium pratense* 2535, 7482
  - *Trifolium repens* 1458
- growth, models 2738, 3991
- growth period, cultivars 6339
- growth regulators
  - abscisic acid 4797, 6342, 7226
  - auxins 1448, 3217
  - cytokinins 7226, 8781
  - ethylene 3246
  - fusicoccin 8096
  - gibberellins 5483, 6344, 8311
  - growth inhibitors 7662
  - humic acids 8097
  - IAA 1448, 7662, 8096, 8098
  - jasmonic acid 8783
  - polyamines 6343
- growth stages 7491
- herbicide safeners 3094
- herbicides
  - acetochlor 3094
  - atrazine 8408
  - butylate 3094
  - dicamba 2739
  - EPTC 3094
  - MCPA 2739
  - paraquat 4795
- insecticides, methyl bromide 6625
- intercropping
  - barley 702, 719, 957
  - *Brachiaria mutica* 8740
  - *Medicago sativa* 2375
  - peas 1297, 2375
  - *Vicia sativa* 7222
- irradiation, gamma radiation 3843
- irrigation 704
- leaves
  - canopy, energy balance, models 5488
  - composition
    - cadmium 6635
    - carotenoids 3214
    - chlorophyll 3214
    - chromium 6635
    - copper 6635
    - fructans 8306
    - lead 6635
    - manganese 6635
    - nickel 6635
    - zinc 6635
  - enzymes 4795, 5446
  - growth 707
  - metabolism
    - chlorophyll 708, 8307
    - fructans 8306
    - proteins 707-708
  - protoplasts 6343
  - pulvini
    - enzymes 6345
    - metabolism 6345
    - tropisms, gravitropism 6345
  - senescence 89, 707-708, 6343
- light 8101-8102
  - far red light 1450
  - red light 1450-1451
- lodging 3449
  - cultivars 6339
- metabolic regulators
  - calcium 5483
  - calmodulin 3217
- metabolism
  - chlorophyll 708, 8307
  - fatty acids 4307
  - growth regulators 8781
  - lipids 87
  - mugineic acid 8308
  - phospholipids 88
  - phytochrome 7227
  - potassium 3062
  - proteins 707-708, 1925
  - steroids 88
- mineral nutrition
  - aluminium 3064
  - cobalt 3246
  - computer software 7947
  - copper 3246
    - toxicity 2525
  - iron 2061
  - models 7947

Oats *cont.*
- mineral nutrition *cont.*
  - nitrogen 266, 6161-6162, 7228
  - potassium 2061, 3062
  - silver 3246
- mineral uptake
  - cadmium 91, 7231, 7489
  - copper 8103
  - iron 3067, 6158
    - siderophores 2609
  - lead 91
  - lithium 549
  - nitrogen 91, 266, 539, 2442, 5510, 7066, 7225
  - phosphorus 539, 5510
  - potassium 539, 3062
  - selenium 3987
  - zinc 91
- nitrification inhibitors 7914
- nitrogen cycle 7066
- panicles
  - composition
    - carotenoids 3214
    - chlorophyll 3214
  - development, drought 5486
- pests, *Heterodera avenae* 8304
- photosynthesis 3986
  - air pollution 3994
  - carbon dioxide 2064
  - electron transfer 3985
  - herbicides 8408
  - humates 8408
- phytochrome 1450-1451, 8101-8102
- pollution
  - cadmium 3843, 7231
  - cobalt 3843
  - copper 8103
  - heavy metals 1936, 6635
  - lead 91
  - zinc 6337
- precipitation 1449, 1452
- protoplasts
  - endocytosis 4799
  - shape 3993
- remote sensing, identification 7087
- respiration 3986
  - carbon dioxide 2064
- root caps 3992
- rooting depth 7280
- roots
  - cell membranes, composition, proteins 3992
  - cell walls, composition, proteins 3992
  - development 7280
    - cultivars 7228
  - distribution 1909
    - soil compaction 6181
  - enzymes 2526, 3216, 3988, 5446
  - growth 3246
    - soil compaction 3084
  - ion transport 3988
  - morphology 2065
  - size 3084
- rotations 263, 539, 1910, 1933, 4639, 8304, 8807
  - barley 84
  - cereals 4816
  - fallow 512
  - fodder crops 4816
  - grasses 4816
  - legumes 84
  - *Lupinus angustifolius* 3604
  - maize 84, 1304, 7482
  - *Medicago sativa* 1304
  - rye 84
  - sugarbeet 84
  - wheat 84, 3604, 3981
- row orientation 3212
- seed cleaners 85
- seed dormancy 4970, 6344
  - climate 4796
  - growth regulators 6342
  - harvesting date 4796
  - storage 4971
  - temperature 4796, 4971, 6342
- seed germination 1610
  - allelopathy 1333, 5345
  - anoxia 8311
  - growth regulators 6344
  - metabolism, enzymes 3989
  - mycotoxins 2737

Oats *cont.*
- seed germination *cont.*
  - oxygen 6344
  - seed treatment 6625
  - storage 972
  - substrates 7232
  - temperature 4971, 5487, 6342, 6344
- seed injury 85
- seed inoculation, rhizobacteria 1445
- seed production 85
  - Russia, Siberia 265
- seed quality 265, 703
- seed size 971
- seed testing 971, 1610
  - substrates 7232
- seed treatment
  - humates 8408
  - insecticides 6625
  - soaking/drying 6238
- seed weight 703, 971
- seedling emergence 85
  - seed treatment 6238
- seedlings
  - enzymes 2062
  - growth, temperature 5487
  - light 1451
- seeds
  - anoxia 8311
  - composition, proteins 562, 6104
  - embryos, dormancy 6342
  - enzymes 8311
  - growth regulators 8311
  - storage 4971
    - containers 972
    - temperature 972
- shelterbelts 2406, 6180
- soil
  - biological activity in soil 1910
  - nitrogen 7066
  - organic matter 1933
  - phosphorus 1449, 3604
  - potassium 1449
- soil amendments
  - dolomite 3060
  - gypsum 3987
  - lime 2525, 3060, 5510, 7225, 7231
- soil compaction 694, 3046, 3084, 6181
- soil conservation 2406
- soil density 2527
- soil fertility 8794
- soil pH 1449, 6157
- soil types 6125, 8794
  - peat soils 7077
- soil water 8807
- soil water content 549, 2527, 7230
- solar radiation, Poland 4204
- sowing date 1446, 3211, 3982, 4790, 8091
- sowing rates 702, 1449, 2521, 3211, 7223, 7280
- straw, composition, sulphur 3987
- taxonomy 3218
- temperature 1449, 1452, 5487
  - heat sums 4204
- translocation
  - cadmium 2391
  - copper 2391
  - lead 2391
  - zinc 2391
- tropisms, gravitropism 6345, 8099
- undersowing, *Medicago sativa* 2375
- vernalization, cultivars 90
- water use efficiency 2064, 5708
  - carbon dioxide 6346
- waterlogging 5446, 7938
- yield components 1449, 3990, 8095
  - cultivars 3214
- yield correlations 1452, 7226
  - cultivars 3214
  - Czech Republic 8794
- yield forecasting, models 3864

Oceania, seed production 3050

Oilseed flax *(see Linum usitatissimum)*

Oilseed plants
- books 8824
- carbon dioxide enrichment 1938
- chemical composition, lead 8796
- climatic change, India 1938
- conferences 8824
- fertilizers
  - nitrogen 2730

Oilseed plants *cont.*
fertilizers *cont.*
NPK fertilizers 8752
requirements 8752
sulphur 6142
India, books 6212
insecticides, DDT 566
nomenclature 4592
pollution, lead 8796
seed germination, insecticides 566
seed quality 4201
seeds
composition
oils 4201
proteins 4201
metabolism, lipids 7067
soil amendments, straw 2730
Oryza (*see* Rice)
Pachyrhizus, conferences 5372
Pachyrhizus ahipa
mineral nutrition, nitrogen 1166
mineral uptake, nitrogen 1166
nitrogen fixation, growth stages 1166
nodulation 1166
translocation, nitrogen 1166
Pachyrhizus tuberosus
seeds
composition
coumarins 6885
flavonoids 6885
Pakistan
Lens culinaris, cultivars 1743
Pakistan Punjab
cropping systems 7092
sunflowers, production possibilities 7092
potatoes, cultivars 1805
rice, cultivars 3361
soyabeans 7495
sugarcane, cultivars 4626-4627, 5313, 7884
sunflowers, cultivars 452
Panama, potatoes 8544
Panicum laetum
seedbed preparation 2729
sowing date 2729
sowing methods
broadcasting 2729
direct sowing 2729
Panicum miliaceum
chemical composition, amino acids 550
cropping systems, India, Uttar Pradesh 8808
cultivars, AC Prairie Gold 3441
drought resistance 7479
enzymes
alanine aminotransferase 8297
amylases 4194
catalase 7064
peroxidases 7064
(s)-2-hydroxy-acid oxidase 7064
fertilizers
boron 1606
NPK fertilizers 1596
sewage sludge, residual effects 530
growth 7479
growth regulators
abscisic acid 4194
kinetin 4194
herbicides
alachlor 4969
linuron 4969
pendimethalin 4969
propazine 4969
simazine 4969
leaves, enzymes 8297
mineral nutrition, nitrogen 8297
photorespiration
hydrogen peroxide 7064
light intensity 6152
temperature 6152
photosynthesis 5336, 7479
light intensity 6152
photosystem II 6152
estimation 4069
temperature 6152
pollution, chromium 530
respiration 5336
seed germination 1596
growth regulators 4194
herbicides 4969
Panicum miliaceum *cont.*
seed production 1596
seedling emergence, herbicides 4969
seeds
composition, elements 1327
enzymes 4194
sowing rates 1596
Panicum miliare (*see Panicum sumatrense*)
Panicum sumatrense
cultivars
India
Gujarat 955
Madhya Pradesh 261
fertilizers, nitrogen 5704
grain, composition, lipids 3456
intercropping, *Vigna mungo* 5704
yields 261
Papaver somniferum
chemical composition
elements 5284
trace elements 5284
cultivars
Denmark 8758
Netherlands 6148-6149
mineral uptake
elements 5284
trace elements 5284
seeds
metabolism 1237
respiration 1237
storage
moisture content 1237
temperature 1237
Papua New Guinea, rice, cultivars 4914
Paspalum scrobiculatum
cultivars, India, Madhya Pradesh 261
grain, composition, lipids 3456
growth regulators, benzyladenine 3458
tissue culture
growth regulators 3458
regenerative ability 3458
yields 261
Pearl millet (*see Pennisetum glaucum*)
Peas
accumulation
starch 1315
sucrose 1315
sugars 1315
agricultural meteorology 4707
Irish Republic 3118
UK 3118
air pollution
ozone 2213, 5352
sulphur dioxide 1684, 3536, 4318, 5062, 6799
allelopathy 1333, 3532
anaerobiosis 2390
anoxia 1531, 4923
apical dominance, growth regulators 5807
catch crops 1906
cell culture
protoplasts 8421
regeneration 8421
cell cultures, enzymes 7927
cell division, herbicides 1512
cell membranes
binding proteins 8422
composition, proteins 2219
electric potential 1691
plasma membranes
enzymes 1681, 5812
light 5812
temperature 1046
cell walls
composition
polysaccharides 1698
proteins 3827
growth 1698, 3827, 8100
growth regulators 1686
metabolism
polysaccharides 1686
xyloglucans 2210
turgor 1686
cells
differentiation 5082
endoplasmic reticulum, transport 5058
Golgi apparatus 5058
transfer, lipids 1700
growth 5082
microfilaments 6730
Peas *cont.*
cells *cont.*
microsomes
enzymes 5052, 6724
membranes 6724
senescence 6724
microtubules 330
mitochondria
composition, heat shock proteins 2209
enzymes 2212, 3530, 6724
membranes 6724
senescence 6724
translocation 5792
nuclei
enzymes 1040, 2832, 5051
proteins 2219
organelles
isolation 5818
transfer, lipids 1700
ultrastructure, air pollution 5352
vacuoles, pH 7011
chemical composition
amino acids 7592
chlorophyll 3617
citric acid 326
DNA, determination 1339
elements 6337, 8103
ethylene 3535
galactose 2900
glycosides 2900
metals 6337
nitrogen 326, 3045
oxalic acid 326
phytates 2900
pigments 2397
proline 326
proteins 322, 326
models 1683
saponins 2900
chlorophyll, fluorescence 1751, 2826, 5046
chloroplasts 320
composition, proteins 2392, 7611, 8420
development 6734, 7596
electron transfer 2827, 3525, 3527, 5045, 7597
enzymes 1039, 1688, 2208, 2833, 3530, 4312, 5795, 5797, 5799, 7605, 8415
fluorescence 5046
heat shock 6734
light 5795, 6731
membranes
binding proteins 6719
carotenoids 329
proteins 321, 329
transfer, proteins 6719
metabolism
ATP 5049
carotenoids 4305
fatty acids 2208, 2830, 4307, 5797
lipids 2830
manganese 8409
nitrogen 5342
proteins 2207, 4303, 5795, 5799, 7598
pH 4305
temperature 1046, 5046
thylakoids 6714, 7597
enzymes 1038, 4309
luminescence 7594
membranes 6717, 7612
translocation
phosphates 5793
proteins 321, 5047, 7598
transport, proteins 4303
uptake, phosphates 5793
cold hardening 5062
cold resistance 1046
continuous cropping 5324
cover crops 6829
rye 314
wheat 314
cropping systems, India, Uttar Pradesh 8808
cultivars
Belgium 7969, 8402-8403
Denmark 8758

Peas *cont.*
cultivars *cont.*
France 5044
India, Himachal Pradesh 5790
Italy 2204-2206, 2231, 4295, 8400, 8759
Poland 2201, 6721
UK 1710
USSR 3528
Bastion 8404
Bityug 3522
Bonzer 1679
Deltafon 8404
Guido 379
Masterfon 8404
Oregon Pioneer 8405
Oregon Trail 8405
Solo 8404
Trump 2825
Winner 8404
cultivation
chiselling 1910
conservation tillage 6234
deep tillage 3042
minimum tillage 1910, 5788
no-tillage 3042, 4293, 6234
ploughing 1910, 6234
subsoiling 1910
damage, responses 5348
desiccants, glufosinate-ammonia 1301
diseases 5324
Botrytis cinerea 4294
Mycosphaerella pinodes 4294
Pseudomonas fluorescens 7084
Pseudomonas syringae pv. *pisi* 8406
disorders, hollow heart 3519
drought, reviews 6178
enzymes
adenosinetriphosphatase 1681, 4297, 5050, 5052
alkaline phosphatase 1038
aminotransferases 2834
amylases 5798
aspartate-ammonia ligase 4311
carboxy-lyases 2831
catalase 1694, 5061, 5337, 7064, 8417
esterases 7613
glutamate-ammonia ligase 2834, 2895, 4310, 5795, 7925
glutamate dehydrogenase 2834, 4310, 5062
glutamate synthase 2834, 4310
glycogen (starch) synthase 8416
glycosidases 5800
hydro-lyases 5444, 7605, 8774
hydrolases 1687, 4308, 7069
inhibitors 7607
isomerases 4297, 4302, 6723, 8417
ligases 1687, 1922, 2208, 2559, 8418
lyases 4302, 4308, 6716
malate dehydrogenase 4297
methyltransferases 1687
nitrate reductase 324, 2834, 5795, 6722, 7925
nitrite reductase 7925
nitrogenase 1702, 2220, 4320, 8425
oxidoreductases 319, 1531, 1687, 1923, 2212-2214, 2833, 2896, 3530, 3826, 4297, 4302, 4313, 4659, 4923, 5061, 5801, 7599, 7607-7609, 8413, 8417
oxygenases 6724
peptide hydrolases 1037
peroxidases 324, 1687, 1694, 4297, 6727, 7064
phenylalanine ammonia-lyase 1687
phosphoric monoester hydrolases 319, 1039, 1688, 4302, 5051
phosphotransferases 1040, 1689, 1925, 2832, 4302, 4309, 4314, 5795, 5812, 6725-6726, 7928, 8417
pyrophosphatases 5052
ribulose-bisphosphate carboxylase 2215, 2836, 4312, 4657, 5444, 5799, 6166, 8415
(s)-2-hydroxy-acid oxidase 5061, 7064
sucrose synthase 1036
superoxide dismutase 4297, 5053

Peas *cont.*
enzymes *cont.*
transferases 1036, 2208, 3530, 4308, 5343, 5797, 7606, 7927, 8416, 8447
trypsin inhibitors 2900, 5913
epicotyls
composition
adenosylmethionine 8418
growth regulators 3531
lignin 1687
electric potential 1691
enzymes 1687, 8418
growth 1691
growth regulators 3531
growth regulators 6729, 8418
light 1687
metabolism, lignin 1687
fertilizers
boron 1033, 1606, 7591
copper 7591, 8103
crop residues 6144
factory effluents 7592
farmyard manure 1910, 6144
iron, foliar application 7600
magnesium 2829
manganese, foliar application 7600
molybdenum 3521, 7591
foliar application 6721
nitrogen 2824, 2902, 3042, 6144, 7588-7590
application methods 3520, 7908
foliar application 3520
residual effects 7914
sources 316
use efficiency 4293, 8757
NPK fertilizers 1910, 5043
phosphorus 3042, 3054, 5789, 5816, 6144, 7587, 7589-7590
application methods 7908
sources 280
use efficiency 8757
potassium 2829, 6144, 7590
application methods 7908
use efficiency 8757
sewage sludge, residual effects 530
straw 6144
sulphur 316
zinc 1310, 7590-7591
foliar application 6337, 7600
flooding, reviews 6178
flowering, temperature, heat sums 1032
flowering date 1031-1032
photoperiod 7610
temperature 7610
flowers
gynoecium
enzymes 2215
senescence 2215
initiation 1032
frost resistance 4317, 7940
fungicides
benomyl 5042
captan 5042, 7615
carbendazim 7615
iprodione 5042
maneb 7615
metalaxyl 7615
thiram 5042, 7615
gene expression
enzymes 4311, 4313
growth regulators 1693
light 8441
salinity 7926
genotype environment interaction 4295
green manures 7044
growth
cultivars 5790
light 2217
measurement 5817
growth period, water stress 331
growth regulators
abscisic acid 326, 328, 1696, 5806, 7603, 8418
adenosine 6174
auxins 1042
AVG 5807
benzyladenine 1044, 5805, 5807
brassinosteroids 5804
cycloheximide 8418
cytokinins 1044, 5054, 5807, 5810

Peas *cont.*
growth regulators *cont.*
2,4-D 1042, 1044, 2210, 5805
ethamon 4665
ethephon 8418
ethylene 1694, 2217, 3535, 3537, 5807, 5809
fusicoccin 1693
gibberellins 326, 1692, 1695, 2216, 4315, 5055-5056, 5806, 6729, 8418-8419
growth inhibitors 5803, 5807
IAA 326-327, 1042, 1686, 1693, 2837, 3531, 3534, 3950, 5806-5808
IBA 1042
kinetin 3534, 4315
NAA 1042
naphthylphthalamic acid 327
paclobutrazol 1043, 1694, 4315
phenolic acids 6728
polyamines 6173
semicarbazones 327
thidiazuron 5146
triacontanol 6174
xyloglucans 6729
zeatin 5054, 5810
zeatin riboside 1042, 5054
growth stages, classification 5347
harvest index 3528
harvesting
machinery 8401
mechanization 3519
methods 3519
windrowing 3519
harvesting date 3519
harvesting losses 1677-1678, 4294, 8401
heat shock 6734
herbicide safeners 328, 3094
herbicides
acetochlor 3094
acifluorfen, binding sites 7608
aclonifen 5969
atrazine 5796, 8408
bentazone 1680, 4296
butylate 3094
2,4-D 328
diflufenican 2559
EPTC 3094
ethofumesate 7593
isoxaben 4656
MCPA 1680
paraquat 4297
picloram 1701
sethoxydim 1512, 4680
thiazolidinone herbicides 1409
toxicity 4297
insecticides, permethrin 3524
intercropping
barley 2375, 3042, 3045
Lupinus angustifolius 1297
maize 2575
oats 1297, 2201, 2375
sugarcane 8710
Vicia faba 1297
wheat 3045
irradiation
gamma radiation 7613
ultraviolet radiation 2397
irrigation 6137, 7587
land use 573
leaf area 3617
leaves
anatomy 2218
canopy, photosynthesis 4300
composition
chlorophyll 7613
proteins 1039, 2836, 4297
development 3075
reviews 1041
enzymes 319, 1923, 2213-2214, 2833-2834, 3826, 4297, 4308, 4310, 4923, 5061, 5337, 6716, 6725-6726, 7613
growth 3075
light 5337
metabolism
chlorophyll 1322
fatty acids 323
nitrogen 2834, 7925
nucleic acids 6732

Peas *cont.*
leaves *cont.*
metabolism *cont.*
organic acids 4923, 5835
phosphorylation 6725
plant pigments 1322
polyamines 5796
proteins 1322, 6732, 7603
mitochondria, enzymes 2831
pH 7011
senescence 1322, 6715
temperature 5337
translocation, nitrogen 8411
light 2214, 5337, 5808
blue light 1925, 2217, 4306, 5812, 8441
far red light 2837, 5815, 8422
red light 2217, 2837, 5803, 5815, 8422
light intensity 1035, 1045, 2826, 3526, 4320, 6732
metabolic inhibitors
ammonium chloride 3527
antimycin A 1045
1,4-dihydropyridine 3527
FCCP 3527
oligomycin 1045
sodium azide 1045
verapamil 3527
metabolic regulators
calcium 1697, 7341, 8412
calmodulin 7341
metabolism
amino acids 1036, 1531, 2211, 7940
ATP, reviews 5049
carbohydrates 1531, 7606
chlorophyll 1322, 6734
enzymes 2215, 2836, 4312
ethylene 3535
fatty acids 323, 2208, 2830, 4307, 5797, 7593
gibberellins 5056
growth regulators 1695-1696, 2216, 3531, 5056, 5810
heat shock proteins 2209, 5911
herbicides 4656
lectins 7602
lipids 2559, 2830
nitrate reduction 324
nitrogen 4310, 7925
nucleic acids 6732
organic acids 1531, 4923, 5835
peptides 7605
phosphorylation 4306, 6725
plant pigments 1322
polyamines 5796, 5802
polysaccharides 1686
potassium 3062
proline 7940
proteins 1322, 1925, 5795, 5799, 6732, 6734, 7603
starch 1036
sucrose 1036
sugars 2210-2211
xanthophyll 6734
mineral nutrition
books 6215
boron, toxicity 1033, 7171, 7601
cadmium, toxicity 2834
chloride 6720
copper 8413
iron 7600, 8413
deficiency 7599
magnesium 2829
manganese 7600
molybdenum 6721
nitrogen 322, 3045, 4074, 5444, 8411, 8414
ammonium nitrogen 2221
deficiency 5048
sources 4310
potassium 2829, 3062, 6720
sodium 6720
zinc 4304, 7600
mineral uptake
calcium 3532, 6728
chloride 6720, 6728
copper 3532, 8103
heavy metals 7969
iron 3067, 7600
magnesium 3532

Peas *cont.*
mineral uptake *cont.*
manganese 3532, 7600
nitrates 7969
nitrogen 322, 2902, 3045, 3538, 4293, 6829, 8411, 8414
phosphorus 3538, 4320
potassium 3062, 3532, 4320, 6720
promethium 3844
sodium 3532, 6720, 6728
zinc 3532, 7600
mitochondria, metabolism, ATP 5049
morphology 4317
mulches
crop residues 4293
plastic film 1031
multiple cropping, rice 513
mycorrhizas 3538, 4320
nitrification inhibitors, residual effects 7914
nitrogen fixation 1702, 2902, 3045, 3617, 4320, 6829, 7044
mineral nutrition 2221, 2834
sowing date 6713
nodulation 1702, 3520, 4423
enzymes 6727
fertilizers 2824
growth regulators 3537, 5809
light 3537
mineral nutrition 2221
mycorrhizas 3538
nodules
composition
carbohydrates 8425
leghaemoglobin 8425
proteins 5057, 8425
sugars 8425
enzymes 2220, 8425
metabolism, proteins 4319
oxygen 2220
respiration 2220, 8425
pests, *Chromatomyia horticola* 3523
pH 3608, 8512
photoperiod 7610
photorespiration 2214
hydrogen peroxide 7064
photosynthesis 1315, 2218, 3528, 4301, 5791
air pollution 1684
carbon dioxide 6716, 7011
carbon pathways 7011
cultivars 4299-4300
electron transfer 319, 1684, 1917, 2827, 3525, 5045, 5444, 6714, 7597
energy relations 1682
herbicides 8408
humates 8408
light 1684, 6718, 7594
light harvesting complexes 532, 2207, 6717, 7596, 7612, 7920-7921
light intensity 1045, 3526, 7011
mineral nutrition 5444
models 1917
photoinhibition 317-318, 1035, 1045, 2826, 3526, 5337, 6732, 7594
photophosphorylation 6714
photosystem I 319-320, 1322, 3525-3526, 5045, 6714, 6718, 7920
photosystem II 317-320, 1035, 1322, 1917, 2207, 2826-2827, 3526-3527, 4298, 5046, 6714-6715, 6718, 7595, 7920, 8407-8409
models 1683
temperature 318, 1751
phytochrome 2837
plant competition, weeds 1034
plant density 2202, 4294, 5788
plant height 5055
pods
development, growth regulators 5806
metabolism
enzymes 2215
growth regulators 2216, 5810, 8419
optical properties 5815
pollen, morphology 4304
pollen germination, salinity 5060
pollination 7075
salinity 5060

Peas *cont.*
pollution
chromium 530
copper 8103
iodine 2395
promethium 3844
radionuclides 3844
zinc 6337
precipitation 6733
protoplasts, metabolism, nucleotides 8128
relative humidity 3317
relay cropping, rice 513
remote sensing, identification 3098
respiration, light intensity 1045
root exudates, phenolic acids 3532
root meristems
cell division 7613
enzymes 6723
herbicides 1512
roots
anatomy 4671
techniques 5814
bacteria, nitrogen fixing bacteria 4074
biomass 3042
cell division 330
cell membranes
ion transport 3529
plasma membranes 3529
cells, microfilaments 6730
composition
calcium 6728
carbohydrates 1694
proteins 5801, 5811, 6730
sodium 6728
damage 330, 1685
development 3074
distribution, soil compaction 6181
electric potential 1685
enzymes 324, 1689, 1694, 2834, 2895, 4310, 5801, 6727
growth 1694, 3074, 8423
pH 8512
soil compaction 3084
growth regulators 1694, 5805
herbicides 1512
ion exchange 1685
length 3074
measurement 3539
metabolism
amino acids 2211
nitrogen 2834
proteins 5801
sugars 2211
morphology 3074
plastids
enzymes 4302, 8417
transport, carbohydrates 4302
respiration 1694
size 3084
temperature 6720, 8423
tropisms
geotropism 1697
hydrotropism 3317
water relations 1694
rotations 1910, 5324
maize 511
melons 5162
okras 5162
rice 6137
sunflowers 511
wheat 1971, 4293, 6234
salinity 324, 326, 5060-5061, 7926
salt tolerance 5061
seed development 1036, 5794
enzymes 8416
seed germination 1700, 3519
air pollution 6799
allelopathy 1333
chemiluminescence 2835
enzymes 4314, 6722
growth regulators 5054
herbicides 1409, 4656
inhibitors 5802
metabolism 8774
fatty acids 7593
proteins 4316
thiamin 380
nitrates 6722
seed treatment 1676, 5041-5042, 7615
vigour 2835

Peas *cont.*
- seed germination *cont.*
  - water stress 331
- seed inoculation
  - *Pseudomonas fluorescens* 7084
  - *Rhizobium* 3520
  - *Rhizobium leguminosarum* 2824, 4320
    - strains 8424
- seed production 4301, 5791
  - models 325
- seed quality 4321
  - water stress 331
- seed testing 7614
- seed treatment
  - fungicides 2824, 5042, 7615
  - growth regulators 326, 1043
  - humates 1676
  - pelleting 7615
  - soaking/drying 5041
- seedling emergence
  - herbicides 4656
  - seed treatment 1676
- seedlings
  - composition
    - nitrogen 4074
    - phytochrome 5813
  - enzymes 5053, 5800
  - greening 6734
  - growth 2837, 5803, 5808
    - air pollution 6799
  - growth regulators 2837, 5803, 5808
  - light 2837, 5803, 5808
- seeds
  - anoxia 6722
  - chemiluminescence 2835
  - cleaning 4321
  - composition
    - amino acids 7591
    - amylopectin 2829
    - amylose 2829
    - fatty acids 5914
    - galactose 2900
    - glycosides 2845, 2900
    - lipids 5914
    - nitrates 6722
    - nitrogen 381, 2902, 7591
    - phytates 2900
    - polyamines 5915
    - proteins 381, 4316, 6721, 7591-7592, 8400
    - saponins 2900
    - starch 2829
    - sterols 6825
    - trypsin inhibitors 381
    - vicine 381
  - cotyledons, mitochondria, enzymes 8774
  - electrical conductivity 3519
  - embryos
    - enzymes 8416
    - metabolism, starch 8773
  - enzymes 1036-1037, 5798, 7069
  - exudates 7614
  - growth regulators 8419
  - imbibition, leakage, electrolytes 7071
  - mechanical properties 1699
  - metabolism
    - amino acids 1036
    - growth regulators 5810
    - polyamines 5802
    - proteins 4316
    - starch 1036
    - sucrose 1036
    - thiamin 380
  - moisture content 1699
  - storage 5041
    - moisture content 8528
    - seed treatment 7615
    - viability 4322
  - translocation, carbon 5794
  - viability 5041, 7614
  - vigour 2835, 3519, 5041, 7614
  - water relations 5794
- senescence 6724
- shoot apices 4315
- shoots, growth 4315
- soil
  - biological activity in soil 1910
  - organic matter 7588
  - phosphorus 3054

Peas *cont.*
- soil amendments
  - dolomite 3060
  - lime 1033, 3060
- soil compaction 3084, 6181
- soil inoculation
  - *Pseudomonas fluorescens* 7084
  - *Rhizobium* 7590
  - *Rhizobium leguminosarum* 1702, 4320
- soil properties 3042
- soil temperature 6829
- soil types 6127
  - peat soils 7077
- soil water content 5816
- sowing date 315, 1031-1032, 2202-2203, 2206, 2231, 3523, 4294, 5789, 6713, 8399-8400
- sowing methods 7586, 7908
- sowing rates 2202, 7585
- spacing 3523, 5043, 7587
- stems
  - enzymes 4310, 7606, 8447
  - growth 1690, 1695, 2210
  - growth regulators 2210
  - internodes, growth, growth regulators 1692
  - light 8441
  - mitochondria
    - electric potential 7604
    - ion transport 8412
    - metabolism, lipids 7604
  - water potential 1690
- stomata, light 8441
- storage, losses 4294
- temperature 318, 1046, 5053, 5337, 5911, 6720, 6733, 7610, 8423
- tissue culture
  - explants 1044, 3534
  - growth regulators 1044, 3534, 5146
  - herbicides 1701
  - regeneration 5146
  - seeds 5146
- translocation
  - calcium 5048, 7341
  - carbon 5048
  - growth regulators 327
  - herbicides 4656
  - nitrogen 5048, 8411
  - phosphorus 5048
  - photosynthates 8424
  - potassium 5048
  - source sink relations 3528, 8410
  - sucrose 2828
  - sulphates 3536
  - sulphur 5048
- transpiration 3071
- tropisms
  - geotropism 1697
    - growth regulators 3950
  - gravitropism 3533
  - hydrotropism 3317, 3533
- undersowing, *Medicago sativa* 2375
- water stress 1694, 7603
  - growth stages 331, 2968
  - reviews 6178
- water supply 5059
- water use 3071
- water use efficiency 2968, 3071, 5816, 6829
- weed control
  - cultivation 1680
  - herbicides 1680, 4296, 4680, 5969
- weeds
  - *Anagallis arvensis* 1034
  - *Chenopodium album* 1034
  - *Coronopus didymus* 1034
  - *Elymus repens* 4680
- winter hardiness 7940
- yield components 8404
- yield correlations 2823, 5788, 6733

Pennisetum americanum *(see Pennisetum glaucum)*

Pennisetum glaucum
- accumulation
  - potassium 4192
  - sodium 4192
- agroforestry 6584
- alley cropping, *Leucaena leucocephala* 2171-2172
- chemical composition 4650

Pennisetum glaucum *cont.*
- chemical composition *cont.*
  - nitrogen 8295
  - phosphorus 8295
- competition, weeds 953
- cropping systems, West Africa 954
- cultivars
  - India, Indian Punjab 5699
  - Mali 4189
  - Niger 7473
  - Nigeria 5700
  - Tanzania 6603
  - MH179 949, 951
  - PCB138 950, 952
  - PMV2 1594
- cultivation
  - depth 1593
  - no-tillage 2719
  - ploughing 2719, 5694
  - ridging 2719, 5694-5695, 7473
- cutting 4169
- diseases, *Sclerospora graminicola* 5701
- drought 2173
- drought resistance 969
  - cultivars 5703
- enzymes
  - esterases 5226
  - glutamate-ammonia ligase 7925
  - hydro-lyases 4190
  - lyases 4190
  - nitrate reductase 7925
  - nitrite reductase 7925
  - oxygenases 5701
- evaporation 5350
- farming systems
  - Mali 4638
  - Senegal 2173
- fertilizers 4650
  - crop residues 3439
  - farmyard manure 933, 2173, 2702, 2720, 3151, 5697
    - residual effects 6145
  - nitrogen 948, 953, 2717-2720, 2723, 4188, 5694, 5698-5699, 6620, 7051, 7470, 7474, 7912, 8295
    - sources 2721, 6621
    - use efficiency 2721
  - NPK fertilizers 5697, 6129, 7056
  - phosphorus 948, 2719, 3437-3438, 4188, 5694, 7473-7474, 8295
    - application methods 2176
    - residual effects 2723
    - sources 2176, 2722-2723
  - potassium 948
  - straw 3438
  - wheat straw 5697
  - zinc 3437, 5694, 6621, 7474
- flowers, gynoecium, ultrastructure 1595
- grain
  - composition, protein 4189
  - filling, water stress 5703
  - quality, reviews 2742
- green manures, *Sesbania* 3151, 5697
- growth, water stress 1330
- growth regulators
  - ethylene 4191
  - gibberellins 4169
  - IAA 4169
  - kinetin 4169
- herbicides
  - alachlor 4969
  - atrazine 7475
  - linuron 4969
  - pendimethalin 4969
  - propazine 4969
  - simazine 4969
- intercropping 6584, 8741
  - *Cajanus cajan* 4184
  - *Cyamopsis tetragonoloba* 5698, 8514
  - groundnuts 3506
  - *Leucaena leucocephala* 3447, 5707
  - *Stylosanthes fruticosa* 2717, 7472
  - *Stylosanthes hamata* 2717, 7472
  - *Vigna radiata* 1592
  - *Vigna unguiculata* 352, 3580, 5103
- irradiation, ultraviolet radiation 1314
- irrigation 259, 3440, 5696
  - saline water 7476
  - sodic water 7476
- irrigation scheduling 5696
- leaf area, estimation 4193

Pennisetum glaucum *cont.*
leaf conductance, water stress 5105
leaf water potential 4370
water stress 5103-5105
leaves
canopy, temperature 3440
metabolism, nitrogen 7925
light, interception 2172
metabolism
nitrogen 7925
porphyrins 4190
microclimate 2171
mineral nutrition 4650
aluminium, toxicity 7456
iron, deficiency 7490
lead 4190
mercury 4190
phosphorus 2724
mineral uptake
iron 7490
nitrogen 8295
phosphorus 2176, 3438, 8295
potassium 3438
mulches 2702, 8743
farmyard manure 1593
maize stover 933
rice straw 1593
multiple cropping 7056
barley 1907
Brassica juncea 2720
Cicer arietinum 8743
wheat 1907
mycorrhizas 7470
pests, *Tylenchorhynchus vulgaris* 8296
photosynthesis
irradiation 1314
mineral nutrition 2724
photosystem II 1314
plant competition, weeds 2173
plant density 947, 1592, 4186, 7056
pollination 7075
pollution
lead 4190
mercury 4190
precipitation 260, 5350
West Africa 954
relative humidity 5350
relay cropping, wheat 948
remote sensing 260, 7477
yield forecasting 2716
yields, estimation 2175
root systems 6622
root water potential, water stress 5105
roots
density 5104
distribution 5104
rotations
Brassica juncea 7051
oats 6129
Stylosanthes fruticosa 2717
Stylosanthes hamata 2717
Trifolium alexandrinum 6129
Vigna unguiculata 7473
wheat 5697, 7051
salinity 4192, 7476
cultivars 4192
seed aging 5226
seed germination
enzymes 5701
herbicides 4969
storage 5226
seed inoculation
Azospirillum brasilense 2718, 6620
Azospirillum lipoferum 2718, 6620
Azotobacter chroococcum 2718, 6620
Glomus mosseae 7470
seed production, books 2419
seedling emergence
cultivation 2719
herbicides 4969
seed quality 4185
seed size 2719, 4185
soil water content 7905
sowing depth 2719, 7905
sowing methods 2719
seedlings, metabolism, porphyrins 4190
seeds
enzymes 5226, 5701
physical properties 6775
storage 5226
temperature 6775

Pennisetum glaucum *cont.*
shading 2174
soil
nitrogen 3439
potassium 3439
soil amendments
gypsum, residual effects 6145
pyrites, residual effects 6145
sulphur, residual effects 6145
soil pH 7456
soil temperature 2174
soil types 2173
soil water balance 5702
soil water content 933, 7905
solar radiation 5350
sowing date 947, 4187, 7056, 7907
sowing depth 7905
sowing methods 8743
sowing rates 2723
submergence, models 3079
temperature 4203, 4973, 5350, 6775
growth stages 4973
heat sums 4974
tissue culture
metabolism, growth regulators 4191
regeneration 4191
transpiration
mineral nutrition 2724
water stress 2724
water relations 4203, 4370
reviews 1330
water stress 259, 2724, 4973, 5103-5105
cultivars 5703
determination 4203
growth stages 4973
reviews 1330
water uptake 4370, 6622
water use 5103-5104, 7907
water use efficiency 259, 2724, 7907, 8741
weed control
cultivation 7473
cultural control 4188
herbicides 7475
manual weed control 953, 5694, 7475
windbreaks 5695
yield correlations 259, 5350
yield forecasting
models 7478
remote sensing 7477
yields
estimation 2175
stability 4189
Pennisetum typhoides *(see Pennisetum glaucum)*
Perilla, cultivars, Okdongdlggae 7844
Perilla frutescens
growth regulators
adenine 7825
auxins 7825
gibberellins 7825
kinetin 7825
tissue culture
culture media 7825
growth regulators 7825
Peru
cropping systems 6134
potatoes, cultivars 1807
rice, agroforestry 8210
sweet potatoes 8593
Pest control, Australia, books 7109
Phacelia
catch crops 7897
green manures 7897
Phaseolus
nodulation 4423
roots
depth 6171
growth 6171
soil conservation, terraces 1383
Phaseolus acutifolius
chemical composition
phosphorus 556
proline 556
grafting 1714
leaf diffusion resistance 556
leaf water potential 556, 1714
leaves, gas exchange 2238
metabolism, heat shock proteins 5911
mineral nutrition, phosphorus 556, 5088
photosynthesis, water stress 2238

Phaseolus acutifolius *cont.*
roots
growth
mineral nutrition 556
water stress 556
hydraulic conductivity 1714
length 556
salinity 5088
seeds, composition, enzyme inhibitors 2899
stomatal resistance 1714
temperature 5911
transpiration 556
water stress 556, 1714, 2238
water use efficiency 2238
Phaseolus angularis *(see Vigna angularis)*
Phaseolus aureus *(see Vigna radiata)*
Phaseolus calcaratus *(see Vigna umbellata)*
Phaseolus coccineus
cultivars, Poland 5143
seeds, composition, polyamines 5915
spacing 5143
supports 5143
Phaseolus lunatus
air pollution, acid fog 4421
chemical composition, glycans 7644
evapotranspiration 3615
fertilizers, nitrogen 8521
growth regulators, gibberellins 1752, 5862
irrigation, growth stages 3615
leaves, stomatal resistance 4421
mineral nutrition, aluminium 3064
nodulation 1754
cultivars 4422
nodules
composition, growth regulators 1752
growth regulators 5862
photosynthesis, air pollution 4421
ratooning 8521
seed inoculation, Rhizobiaceae 1754
seed weight, cultivars 4422
seeds
composition
enzyme inhibitors 2899
fatty acids 5914
lipids 5914
stems
composition, growth regulators 1752
growth regulators 5862
Phaseolus mungo *(see Vigna mungo)*
Phaseolus radiatus *(see Vigna radiata)*
Phaseolus vulgaris
accumulation
starch 1315
sucrose 1315
sugars 1315
agroforestry, Malawi 8735
air pollution
nitrogen dioxide 5085, 7648
nitrogen oxides 5087
ozone 348, 1076, 2244, 5086-5087, 7648-7649
protectants 1075, 1077
sulphur dioxide 7648
protectants 1075
antioxidants, ethylene diurea 7649
carbon dioxide enrichment 346-347
cell cultures
enzymes 2862
metabolism 2862
polysaccharides 7935
cell division 2862
cell membranes
ion transport 4338
permeability 4338
plasma membranes, enzymes 1681
tonoplast, enzymes 5836
cell walls
composition
carbohydrates 5840
proteins 1072
growth 7642
cells
differentiation 5082
endoplasmic reticulum 344
growth 5082
nuclei, growth regulators 6757
chemical composition
cadmium 2391
calcium 2234, 4647, 8453

***Phaseolus vulgaris** cont.*
chemical composition *cont.*
carbohydrates 346
chlorine 8453
copper 2234, 2391
galactose 2900
glycans 7644
glycosides 2900
iron 2234, 4647
lead 2391
lectins 6759
magnesium 2234, 4647, 8453
manganese 2234, 6816
nickel 2234
nitrogen 339, 2234, 2242, 2868, 3486
phenols 1070
phosphorus 339, 556, 2234, 4647, 6816
phytates 2900
potassium 2234, 8453
proline 556, 8453
saponins 2900
selenium 6753
sodium 8453
starch 346, 1717
statistical analysis 1071
sugars 1717
zinc 2234, 2391
chlorophyll, fluorescence 2244, 6752, 7639
chloroplasts
development 2863
enzymes 2863
greening 6754
metabolism
amino acids 2863
chlorophyll 6754
proteins 6754
thylakoids
development 7641
enzymes 7641
circadian rhythm 3559, 4336
continuous cropping 5324
cover crops, *Trifolium subterraneum* 1298
cultivars 340
Brazil, Goiás 8443
France 1062, 6747
identification 4346
techniques 4352
India
Bihar 1060
Uttar Pradesh 7629
Italy 2232, 4334, 8759
mixtures 7638
Uganda 5829
UK 1710
Alpine 6749
Aztec 6748
BR6-Barriga-verde 1063
BR/IPAGRO1-Macanudo 1063
Cascade Giant 341
CG104 1064
G5621 1065
Harowood 2854
Ilomba 1064
Kingreen 379
Lyamungu-90 1065
Masai 379
Nassau 379
Oura Negro 4335
Romall 379
Shetland 2855
SUA90 1064
TMO216 1064
TUC Rojo-180 2853
UAC41 1064
UI537 6750
Uyole-90 1064
Varre-Sai 4335
cultivation, ripping 2240
damage, responses 5348
defoliants
ethephon 6914
fusicoccin 6914
thidiazuron 6914
diseases 5324
Colletotrichum lindemuthianum 8443
Phaeoisariopsis griseola 8443
Uromyces appendiculatus 8443
drought 3564, 4347

***Phaseolus vulgaris** cont.*
drought *cont.*
reviews 6178
drought resistance, cultivars 345, 3564
enzymes
acid phosphatase 2239
adenosinetriphosphatase 1681
amylases 2236, 5078-5079
cellulase 1068
β-fructofuranosidase 1717, 2862
glucosidases 5079
glutamate-ammonia ligase 1713, 2895, 4340, 5087
glutamate dehydrogenase 5087
hydro-lyases 2863, 5444
hydrolases 1068, 3561, 4308, 4351
inhibitors 2236
lyases 4308
nitrate reductase 5087
nitrite reductase 5087
nitrogenase 2243, 2868, 4348-4350
oxidoreductases 8449
oxygenases 4933
peptide hydrolases 7641
peroxidases 7648, 8577
phosphoric monoester hydrolases 5080
phosphotransferases 2862, 5836
ribulose-bisphosphate carboxylase 3558, 3825, 5444, 8446
sucrose synthase 1717, 2862
superoxide dismutase 1077, 5085
transferases 1717, 3558, 4308, 5081, 7640, 8447, 8449
trypsin inhibitors 2900, 5913
evapotranspiration 7631
fertilizers
bone ash 339
boron, foliar application 1709
calcium
foliar application 1708
sources 1708
composts 339
copper 4339
foliar application 3557
iron, foliar application 7637
molybdenum 3557
foliar application 1709
nitrogen 337-338, 2232, 2241, 2868, 3486, 3556, 4038, 4339, 5834, 7630, 7633, 7913
application methods 7635-7636, 7908
requirements 7936
NPK fertilizers 1067, 3056, 5830
phosphorus 339, 3557, 4339, 5834, 7634
application methods 7635-7636, 7908
potassium 4339, 7630
application methods 7908
poultry manure 339, 3557
zinc 3557, 4339
field experimentation, experimental design 1719
flooding, reviews 6178
flowering
induction 1070
temperature 5084
flowers, enzymes 1068
fungicides
benomyl 4332
captan 4332
thiophanate-methyl 4332
thiram 4332
grafting 1714
grain, composition, nitrogen 338
greening 6754
growth analysis 7643
growth regulators
abscisic acid 3563, 5837, 6753
benzimidazoles 4667
benzyladenine 4342, 6756, 6760, 7646
chrysanthemic acid 1082
cytokinins 3555, 4667
ethamon 4665
ethylene 4343, 5838, 6914
flurprimidol 1075
forchlorfenuron 7646
fusicoccin 3562

***Phaseolus vulgaris** cont.*
growth regulators *cont.*
gibberellins 4933, 6753, 6756
binding proteins 6757
3-hydroxy-β-ionone 2865
IAA 2864, 3562, 4344, 5839
paclobutrazol 1075
phenolic compounds 1070
tetcyclacis 1075
thidiazuron 7646
zeatin 8449
harvesting
damage 2852
methods 1061
harvesting losses 1061, 3049, 7632
herbicides
atrazine 2856
chloramben 1067
hexazinone 8802
imazapyr 8802
metolachlor 1067
paraquat 1066
residual effects 8802
tebuthiuron 8802
tolerance 1066, 8802
triclopyr 8802
trifluralin 1067
hydroponics 6762
hypocotyls
composition, growth regulators 2865
growth, light 2865
inoculation, *Rhizobium*, strains 2868
intercropping
bananas 5829
Eucalyptus camaldulensis 8735
maize 755, 2575, 4038, 4041-4042, 8443
potatoes 4448, 5830
Ricinus communis 1202
sorghum 931
sugarcane 337, 8710
irradiation
fluorescence 2244
ultraviolet radiation 2244
irrigation 338, 7631, 8520
factory effluents 4647
furrow irrigation 4646, 5832
requirements 4333
sewage effluent 1911
trickle irrigation 4333
irrigation scheduling 4333, 5833
leaf conductance, mineral nutrition 4345
leaf diffusion resistance 556
leaf water potential 556, 1074, 1714
measurement 3567
leaves
abscission 5838
accumulation, amino acids 6755
anatomy 1716
canopy, temperature 1074
composition
arabinitol 1928
boron 1071
calcium 4138
carbohydrates 346
chlorophyll 346
copper 1071, 2859
iron 2859, 3560
manganese 1071, 2859, 3560, 4138
nitrogen 4339
phenolic compounds 2866
potassium 4339
starch 346
zinc 1071, 2859, 4138
damage, air pollution 5085
energy relations 1718
enzymes 1077, 4308, 5080, 8447
gas exchange 2238, 5077
greening 342
growth 5843
growth regulators 4343, 6756
light 5843, 6756
metabolism
arabinitol 1712
carbohydrates 1712
chlorophyll 1322, 7639
chlorophyllides 6761
nucleic acids 2861
nucleotides 2867
organic acids 5835

Phaseolus vulgaris *cont.*
leaves *cont.*
metabolism *cont.*
plant pigments 1322
proteins 1322, 2861
morphology 1716
nastic movements 4336
orientation 4345
osmotic pressure, determination 2869
pulvini, growth regulators 4343
reflectance 7936
remote sensing 2245
senescence 1322, 2861
stomata 346
stomatal movement 5077
diurnal variation 8445
stomatal resistance 347
growth regulators 3563
water stress 3563
temperature 4345
thickness 346
trichomes 4372
water content 5077
water use efficiency 347
wilting 5077
light 6756, 6761, 7646, 8446, 8760
blue light 5843
red light 5843
light intensity 2243, 5077
metabolism
arabinitol 1712
ascorbic acid 7648
carbohydrates 1712, 2862
carotenoids 7640
chlorophyll 1322, 4021, 6754, 7640, 7648
enzymes 2236
ethylene 4343, 6914
growth regulators 4344, 5837, 8449
herbicides 2856
lipids 8451
nitrogen 5087
nucleic acids 2861
nucleotides 2867, 4342
organic acids 5835
phosphorylation 5836
plant pigments 1322
potassium 3062
proteins 344, 1322, 2236, 2861, 6754, 7640
starch 1717, 5078
sugars 1717, 5078
mineral nutrition 346-347
aluminium 3064, 3066, 6751
toxicity 2860
books 6215
calcium 6751
iron 7637
toxicity 3560
magnesium, deficiency 1066
manganese, toxicity 3560
molybdenum 4337
nickel, toxicity 2234, 4138
nitrogen 3486, 5444, 6816, 7650
foliar diagnosis 2235
phosphorus 556, 4351, 5088, 6816
foliar diagnosis 2235
potassium 3062
deficiency 4339
foliar diagnosis 2235
zinc, deficiency 4338
mineral uptake
cadmium 1911
heavy metals 3565
lead 1911
manganese 6816
nitrogen 3486
phosphorus 1318, 6816
potassium 3062, 5843
rubidium 5843
selenium 6753
trace elements 339
zinc 1911
mulches 7630
live mulches 1298
wheat straw 7631
multiple cropping
Eragrostis tef 7901
wheat 6252
mycorrhizas 4351, 4424
nitrogen fixation 2243, 3486, 4348, 4350

Phaseolus vulgaris *cont.*
nitrogen fixation *cont.*
cultivars 2868
measurement 7650
nodulation 1754, 4038, 4350, 8454
cultivars 2868, 3566, 5844
fertilizers 339, 7636
soil pH 6763
temperature 2242
nodules
classification 4350
colour 4350
composition
carbohydrates 4349
molybdenum 4337
proteins 4349
development 4350
enzymes 2868, 4340, 4348-4350
growth 4350
growth stages 2243
respiration 4348
petioles
growth regulators 4343
mechanical properties
flexibility 5266
torsional strength 5266
phenology 7643
photorespiration 8760
photosynthesis 343, 1315
air pollution 2244
cadmium 6752
carbon dioxide 347, 3558, 8446
diurnal variation 3559, 4336, 8445
electron transfer 5444, 8444
enzymes 3558, 8446
gas exchange 8760
herbicides 2856
light 8446
metabolic inhibitors 7640
mineral nutrition 5444
net assimilation rate 7629
photosystem I 1322, 8444
photosystem II 342, 1322, 6752
pollution 6752
water stress 2238, 5077
plant competition, weeds 828, 1067
plant density 2851, 4041, 4448, 5831, 7629-7630
plant height, measurement 7651
pods
composition
boron 1071
copper 1071
manganese 1071
zinc 1071
development 2851, 3561
enzymes 3561, 5078, 8577
pollination 7075
pollution
cadmium 1911, 6752
caesium 7078
lead 1911
radionuclides 7078
zinc 1911
relative humidity 5086
respiration 1076, 8760
root exudates
amino acids 6751
carbohydrates 6751
root hairs 1318
rooting depth 1715
roots
cation exchange capacity 3066
composition
boron 1071
copper 1071
manganese 1071
tannins 6763
zinc 1071
development, water stress 3072
enzymes 2895, 4351
growth 2860
mineral nutrition 556
water stress 556, 3072
growth regulators 1082
hydraulic conductivity 1714
initiation 1082
length 556, 3066
respiration 2860, 3287
soil compaction 8793
temperature 1718

Phaseolus vulgaris *cont.*
roots *cont.*
volume 6755
rotations 5324
wheat 1971
salinity 2867-2868, 4667, 5088, 8453
seed aging 3568
seed germination 1708
cultivars 1069
enzymes 5079
growth regulators 2864, 5839
imbibition 1069
metabolism 5839
thiamin 380
seed processing 4341
seed treatment 3554, 4332
seed weight 4353
soil pH 6751
storage 1069, 2246, 8448
temperature 6751
water stress 2239
seed injury, seed weight 4353
seed inoculation
Pseudomonas, reviews 3090
Rhizobiaceae 1754
Rhizobium leguminosarum 338, 3566, 6816
strains 6763
Rhizobium phaseoli 3556
seed maturation 3562
seed quality 4045
seed weight 4353
seed set, temperature 5084
seed size 5075
seed testing 4353
vigour 6778, 6830
seed treatment
alcohols 3568
fungicides 4332
growth regulators 3555
matriconditioning 3554
seedling emergence 2246
seed treatment 3554
threshing 6746
seedlings
composition
calcium 6751
potassium 6751
cotyledons
composition, lipids 8451
metabolism, lipids 8451
senescence 8451
seeds
composition
amino acids 2239, 2246
boron 1071
cadmium 2391
copper 1071, 2391
elements 1327
enzyme inhibitors 5841-5842
fatty acids 5914
galactose 2900
glycosides 2900, 5083
lead 2391
lectins 8450
lipids 5914
manganese 1071
nitrogen 338, 381
phospholipids 7645
phytates 2900
proteins 381, 2236, 2239, 2246, 4346, 6758, 7630, 7633
saponins 2900
starch 2239, 7630
sugars 2239, 2246
tannins 6763
terpenoids 5083
trace elements 7630
trypsin inhibitors 381
vicine 381
zinc 1071, 2391
cotyledons, composition, proteins 344
endosperm, enzymes 5081
enzymes 2236, 2239, 4933, 5078, 5836
hypocotyls, pH 3562
imbibition 1069
metabolism 5836
enzymes 2236
growth regulators 2864
proteins 2236

***Phaseolus vulgaris** cont.*
seeds *cont.*
metabolism *cont.*
thiamin 380
moisture content 1069, 6830
physical properties, determination 4255
storage 2246
temperature 3568
threshing
damage 6746
methods 6746
translocation
photosynthates 1711, 2857-2858
sugars 1711
viability 3568
vigour 2246, 3568, 5075, 6830
shoots, composition, nitrogen 2243
soil amendments
gypsum 6751
lime 2230, 4339, 6751
residual effects 3056
soil compaction 2240, 3565, 8793
soil inoculation
Glomus intraradices 4424
Glomus mosseae 4424
Pseudomonas, reviews 3090
Rhizobium leguminosarum 2241
Rhizobium phaseoli 3556, 6682
soil pH 3566, 6763
soil types 1060
soil water 1074
solar radiation, use efficiency 7634
sowing date 1060, 7630, 8520
sowing methods 7908
sowing rates 7630, 7633
space science 6762
spacing 4646
stems
composition
boron 1071
copper 1071
manganese 1071
zinc 1071
phloem 2233
stomatal movement, diurnal variation 4336
stomatal resistance 1714
temperature 2242, 2856, 3563, 3567, 6751
cultivars 5084
growth stages 5084
tissue culture 7647
cotyledons 1073
embryos 1073
explants 6760
sources 7646
growth regulators 6760
translocation
amino acids 6755
cadmium 2391
copper 2391
electrical treatment 2233
growth regulators 4344
herbicides 2856
lead 2391
molybdenum 4337
selenium 6753
temperature 2233
vibration 2233
zinc 2391
transpiration 343, 556, 4333, 7631, 8453
metabolic inhibitors 7640
mineral nutrition 4345
tropisms, heliotropism 4345
water stress 556, 1074, 1714, 1717, 2238-2239, 3072, 3567, 5077
cultivars 345
recovery 3563
remote sensing 8452
reviews 6178
water table 2078
water use 5832
models 2078
water use efficiency 2238, 7631
mineral nutrition 4345
weed control 1298
cultivation 1067
herbicides 1067
weeds
Abutilon theophrasti 1067

***Phaseolus vulgaris** cont.*
weeds *cont.*
Amaranthus 828
Bidens pilosa 4041
Chenopodium album 828
Melampodium divaricatum 4041
Melanthera aspera 4041
yield components 7638
plant density 2851
yield correlations 343
cultivars 5076
Phenology
models, books 5393
prediction, books 5393
Philippines
land use, planning, expert systems 4681
maize, cultivars 781
rice, farming systems 7389
Photoperiod, reviews 553
Photorespiration
carbon dioxide, reviews 8765
models 8767
oxygen, reviews 8765
reviews 8766
Photosynthesis
bibliographies 1316, 7923
books 1964-1965, 3117, 4704, 7984, 8829
carbon dioxide 3882, 6151
reviews 8763-8765
carbon dioxide enrichment 2675
carotenoids, books 8831
conferences 1360, 7103-7106
electron transfer 6151
books 3115
measurement, techniques 3852
enzymes, reviews 7929
gas exchange
measurement 7080
apparatus 7944
techniques 3850
models 8761
growth regulators, reviews 7922
isotope fractionation, reviews 2170, 2399-2400
light 3882
models 5338
reviews 3837
light harvesting complexes 532
books 8830
reviews 543, 7920-7921
measurement, techniques 5359-5360
models 534, 2132, 2404, 3882
oxygen 5380
reviews 8765
photosystem I 3117
photosystem II 3117
reviews 8763-8764
reviews 533, 3061, 7923, 8766
techniques 1316, 2404, 7923
isotopes 1941
temperature 3882
Phytochrome, reviews 553
Pigeonpeas (*see Cajanus cajan*)
Plant analysis, books 1365-1366
Plant anatomy, books 3111
Plant competition 557
Plant density 557
Plant development
books 6217
oxygen, toxicity 5380
pests 1946
Plant introduction, books 8827
Plant nutrition (*see also* fertilizers, mineral nutrition and mineral uptake under specific crops)
aluminium
tolerance, reviews 8770
toxicity, reviews 1320
arsenic, tolerance, reviews 8770
books 1367, 6214, 8834-8835
boron, reviews 2386
chloride, reviews 2180
climatic change 3088
conferences 4694
copper, tolerance, reviews 8770
deficiency, boron, reviews 1309
heavy metals, tolerance, reviews 5357, 8770
iron
books 5378

Plant nutrition *cont.*
iron *cont.*
deficiency, reviews 6153, 6159-6160
reviews 6156
toxicity, reviews 6153
models 1319
nitrogen 2405
models 2385
reviews 3818
phosphorus, reviews 6163
potassium 3062
reviews 3091, 6155, 6183, 7960
sulphur
Bangladesh 854
India 1308
Indonesia 1307
reviews 1306
trace elements, reviews 2387
Plant organs, mechanical properties, books 3116
Plant physiology
books 593, 4692, 8828
climate 548
conferences 3877, 6211
light 548
models, books 600
potassium 3062
reviews 547, 1337
temperature 548
water relations 548
Plant tissues, mechanical properties, books 3116
Plant water relations, books 3116, 8833
Poland
barley
cultivars 724, 6366-6367, 6404
solar radiation 4204
cereals
diseases 964
pests 964
climate 7094
fodder crops 1905
land use, upland areas 7088
Lens culinaris, cultivars 2258
Linum usitatissimum, crop husbandry 6044
maize, cultivars 780, 7311
oats
cultivars 6338-6339
solar radiation 4204
peas, cultivars 2201, 6721
Phaseolus coccineus, cultivars 5143
potatoes
bibliographies 1811, 5211
cultivars 2923, 5195
solar radiation 4485
yield targets 1793
rotations 5364
rye
cultivars 710
solar radiation 4204
sugarbeet 8529
cultivars 2285, 4432, 8534
temperature, heat sums 4204
triticale, cultivars 7239
Vicia faba
cultivars 6739
drought 7628
production possibilities 1705
Pollination, reviews 166
Pollution (*see also* Air pollution)
arsenic
barley 4838
rice 4838, 8277
sweet potatoes 8277
books 594, 3114
boron, cereals 7494
cadmium
barley 122, 750, 5355
cotton 7942
fodder beet 1911
Linum usitatissimum 5255
maize 2614, 3435, 4051, 5355, 5615, 6447, 7370
oats 3843, 7231
Phaseolus vulgaris 1911, 6752
potatoes 1911, 5355, 5957-5958, 7942
rice 4919, 5636, 5669, 6571
sugarbeet 7942
sunflowers 2338

Pollution *cont.*
cadmium *cont.*
Vicia faba 5066
Vicia sativa 750, 3843
Vigna radiata 5094
wheat 3843, 4785, 6291, 7942
caesium 3086
barley 2511, 7078
Cicer arietinum 7078
Lens culinaris 7078
Phaseolus vulgaris 7078
potatoes 7078
turnips 7078
wheat 2511, 7078
chromium
barley 530
Panicum miliaceum 530
peas 530
rice 7440
sugarbeet 530
cobalt
cotton 7942
oats 3843
potatoes 7942
sugarbeet 7942
Vicia sativa 3843
wheat 3843, 7942
copper
barley 5[illegible]
maize 145, 5355, 7370
oats 8103
peas 8103
potatoes 5176, 5355
soyabeans 6647
sunflowers 2338
wheat 4785
factory effluents, groundnuts 3517, 5787
fluoride, maize 2095
heavy metals
barley 1936, 6635
books 7112
fodder beet 1936
maize 1936, 6472, 6635
oats 1936, 6635
potatoes 1157, 1936, 5202, 8588
rape 1936
reviews 5357
rice 5660
rye 1936, 5202
tobacco 1253
wheat 1936, 5660, 6635
iodine
barley 2395
maize 2395
peas 2395
soyabeans 2395
wheat 2395
lead
barley 122, 750, 5355
Cicer arietinum 8796
fodder beet 1911
maize 5355, 7370
oats 91
oilseed plants 8796
Pennisetum glaucum 4190
Phaseolus vulgaris 1911
potatoes 1911, 5355
sunflowers 2338
Vicia faba 5066
Vicia sativa 750
Vigna radiata 8796
wheat 4785
mercury, *Pennisetum glaucum* 4190
nickel
barley 122
wheat 4785
nitrogen dioxide, barley 2572
petroleum, maize 5572
promethium
barley 3844
peas 3844
potatoes 3844
sugarbeet 3844
wheat 3844
radionuclides 3086
barley 3844, 5354, 7078
Cicer arietinum 7078
Lens culinaris 7078
maize 5354
peas 3844
Phaseolus vulgaris 7078

Pollution *cont.*
radionuclides *cont.*
potatoes 3844, 5354, 7078
rye 5354
sugarbeet 3844
tobacco 8702
turnips 7078
wheat 2056, 2512, 3844, 4782-4783, 5354, 7078
strontium 3086
sulphides, rice 6572
sulphur, reviews 2401
sulphur dioxide, barley 2572
zinc
barley 750
fodder beet 1911
maize 3435, 7370
oats 6337
peas 6337
Phaseolus vulgaris 1911
potatoes 1157, 1911
sunflowers 2338
Vicia sativa 750
Portugal
barley, cultivars 735
remote sensing 7954
wheat, cultivars 8029
Potatoes
agricultural meteorology
Irish Republic 3118
Italy 599
UK 3118
air pollution
nitrogen dioxide 8587
ozone 2394
sulphur dioxide 5203, 8587
altitude 8794
apparatus, seed tubers, production 5207
bibliographies
India 5212
Poland 1811, 5211
books 1960
cell culture
culture media 8789
protoplasts 5991
cell cultures
growth regulators 3668
metabolism, polysaccharides 7935
photosynthesis 5991
regenerative ability 5991
cell membranes
carbohydrates 408
diseases 1148
plasma membranes, phosphorylation 1789
temperature 3676
cells
microtubules 5192
mitochondria
electric potential, determination 1798
enzymes 7725
ultrastructure 3676
uptake, carbohydrates 408
chemical composition
boron 403
cadmium 8588
copper 8588
glycoalkaloids 1797
iron 6157
lead 8588
lipids 1796
nitrates 5175
reviews 6874
nitrogen 1151, 8768
phosphorus 3649
trace elements 2942
trypsin inhibitors 1329
chlorophyll, fluorescence 790
chloroplasts, composition, proteins 2392
climate, Iran 5198
climatic change 7732
models 1940
Colombia 8545
conferences 3879, 5372
cover crops
rye 398
wheat 398
crop husbandry
mechanization 1139
Russia 7708

Potatoes *cont.*
crop husbandry *cont.*
Switzerland 7709
USSR 7708
crop management
expert systems, Netherlands 1295
reviews 3663
cropping systems, India, Uttar Pradesh 8808
cultivars 4459
Australia 7721
Austria 5966
Bulgaria 4460
classification 1779-1780, 5179
proteins 8560
trypsin inhibitors 8560
Czechoslovakia 4455
Denmark 1144, 2384
Egypt 2936, 5184
European Communities 3660
France 2935, 5178
Germany 1774, 2926, 2934, 3658-3660, 4458, 5967
Guadeloupe 404
India 6864
Bihar 5965
Indian Punjab 5964, 6865
Meghalaya 7712
Uttar Pradesh 3637, 8559
West Bengal 6856
Italy 4461, 5164, 8759
Mauritius 1782
Netherlands 6148-6149
Pakistan 1805
Peru 1807
Poland 2923, 5195
Romania 7720
Russia 1768
Switzerland 2933
USA
Michigan 407
Wisconsin 2932
Yugoslavia 405-406
Bereginya 4463
Bryanskii Rannii 4464
Charlotte 7709
Coastal Chip 5968
Jopung 5183
Kaimai 8566
Karaka 8565
Liseta 8562
Maradonna 8563
Michigold 5182
Mondial 8564
Posvit 4463
Ranger Russet 5181
Russet Nugget 2938
cultivation
chiselling 1910, 3226, 3841
conservation tillage 1934
depth 7708
discing 7711
earthing up 7714
erosion control 8550
harrowing 6866, 7708, 7711
mechanization 8546
minimum tillage 1910, 3226, 4465, 5536, 8567
no-tillage 1934, 5536
ploughing 1910, 7708, 7711
ridging 6866, 7714
subsoiling 1910, 2296, 4449
defoliation 3633
desiccants 5165
buminafos 1771
dinoseb 3640
diquat 3640, 7715
glufosinate 3640, 7715
metoxuron 3640
sulphuric acid 3640
disease control 4639
fungicides 1785, 5186
growth regulators 1770
diseases
Alternaria alternata 8575
Colletotrichum coccodes 5974
Phytophthora infestans 1783, 1785, 2941, 4458, 4639, 5186, 5975-5976, 8573-8574
potato leaf roll luteovirus 1787
potato S carlavirus 1787

Potatoes *cont.*
diseases *cont.*
potato X potexvirus 1148, 1787-1788
potato Y potyvirus 1787, 5978
potato yellow vein 1786
Rhizoctonia solani 1147, 1784, 2940, 4467
Verticillium dahliae 4454, 4468
viruses 1783
Russia 5977
disorders 417
aetiology 4470
control 4470
drainage 8807
drought 2303, 5408
reviews 6178
drought resistance
cultivars 1803, 2299
models 2303
dry matter accumulation 1151
cultivars 1804-1805, 6865
temperature 1804
dry matter distribution 5201, 7727
cultivars 1804
temperature 1804
energy requirements 4703
environment 6874
enzymes 6870
acid phosphatase 4489
adenosinetriphosphatase 4489
carboxy-lyases 6868
catalase 6873, 8579
catechol oxidase 2949, 6872
β-fructofuranosidase 1790, 5985
galactolipase 3676
hydrolases 6873
lactate dehydrogenase 412
malate dehydrogenase 8579
nitrate reductase 4489
oxidoreductases 2949, 5191, 5986, 8579
oxygenases 410, 3676, 5191, 6871, 6873, 7725-7726
peroxidases 2944, 2949, 4474, 5176, 6873, 8577
phenylalanine ammonia-lyase 5191
phosphotransferases 1153, 2301, 3823, 4475, 4482, 5189-5190, 5987, 7723-7724, 7928
ribulose-bisphosphate carboxylase 3825, 8576
sucrose synthase 1790, 8578
superoxide dismutase 6873
transferases 1152, 4473, 4476
evaporation, growth stages 2505
evapotranspiration 3080, 6179
estimation 1930-1931
growth stages 2505, 2947
models 2305
farming systems, organic farming 2941, 3687, 4458
fertilizers
boron 403, 7719
application methods 5177
foliar application 5177
calcium 7719
cattle manure 1778
cattle slurry 1778
composts 2931, 4639, 8558
copper 5176, 8555
application methods 5177
foliar application 5177
factory effluents 5963
farmyard manure 1300, 1311, 1910, 3052, 3226, 3657, 3809, 4458, 4639, 5328, 5333, 5962, 6143, 6855, 6863, 7063, 7708, 8557, 8807
residual effects 8555
filter cake 4456
iron
application methods 5177
foliar application 5177
magnesium 2927-2928, 3654-3655
manganese
application methods 5177
foliar application 5177
manures 3685
models 2930, 8751
nitrogen 398, 401, 525-526, 529, 1150-1151, 1774-1775, 2302,

Potatoes *cont.*
fertilizers *cont.*
nitrogen *cont.*
2923, 2926-2928, 2930, 3058, 3638, 3644, 3652, 3657, 3672, 3809, 4451, 4453, 4455-4457, 4459, 5169, 5175, 5178, 5195, 5325, 5328, 5951-5954, 5960-5963, 5975, 6852, 6856, 6858-6859, 6863, 7727, 8547, 8555, 8589, 8755
application date 1769, 3642, 3645, 5172, 5174, 5950, 5955, 6855
application methods 2295, 2381, 2929, 3643, 3813, 6857, 7730
foliar application 3642
requirements 3647, 5950
computer software 5173
models 8756
reviews 2381
sources 402, 1777, 3642, 3645, 3648, 5172, 5174, 5950, 5956, 6855, 7716, 8556
use efficiency 3646, 5956, 7718, 7730
NPK fertilizers 1300, 1910, 2929, 2931, 3052, 3056, 3226, 3633, 4639, 5830, 6138, 6143, 6861-6862, 8807
application methods 2295
use efficiency 7062
phosphorus 401, 2302, 2927, 2930, 3650, 3657, 3685, 3809, 4451, 4457, 4651, 5328, 5331, 5958, 5960, 6855, 6858, 6860, 7710, 7718, 7727, 8547, 8555, 8557
application date 7717
application methods 1143, 2295, 2929, 3813
foliar application 2295, 3649
requirements, models 8756
reviews 5959
sources 402, 1777, 2929, 5957, 7717
pig slurry 529, 1778, 3058
potassium 401, 528, 1776, 2302, 2754, 2928, 2930, 3651-3652, 3657, 3809, 4457, 5328, 5331, 5961, 6855, 6859-6860, 7710, 7718, 7727, 8547, 8555, 8755
application methods 2295
sources 402, 1306, 1777, 2927
poultry manure 8558
refuse compost 3059
requirements 8750
reviews 5171
sewage sludge 1936, 5202, 5333
straw 3226, 6143
sulphur 1306, 5960, 7718
requirements 7719
sources 402, 7719
trace elements 3814
application methods 5177
foliar application 5177
zeolites 2378
zinc 1914, 6855
application methods 5177
foliar application 5177
field experimentation
equipment, irrigation 5168
experimental design 2306, 2925
flooding 8552
reviews 6178
frost injury 8586
frost resistance 8586
fruits, composition, glycoalkaloids 1797
fungicides 3809
copper hydroxide 1785
mancozeb 1785, 5186, 5976
metalaxyl 4450, 5976
metiram 4450
propamocarb 1785
thiabendazole 4450
tolylfluanid 1785
green manures 6143
Phacelia 3656
Raphanus sativus 3656
Sesbania cannabina 5962
Sinapis 3656

Potatoes *cont.*
growth 1146
computer software, models 1158
cultivars 5964
measurement 5817
models 5988, 8554
growth period, cultivars 1781
growth regulators
abscisic acid 3668-3669, 4487, 5990
AC-243,654 5947
ancymidol 4481, 8584
auxins 2945, 5990
benzyladenine 1799, 3677-3678, 5993, 7729
brassinolide 5936
chlormequat 2944, 3677, 5186, 7729
chlorpropham 2307
coumarin 2944
cyanine dyes 3635
cytokinins 413, 1765, 2945, 4481, 5408, 5990, 8590
daminozide 8584
ethamon 4665
ethephon 1765, 5169, 5937, 6852, 8555
fusicoccin 5936
gibberellins 1765-1766, 1770, 3669, 4487, 5201, 5937, 5946, 5990
glyacil 1800
growth inhibitors 3809
IAA 1794
IBA 1799, 5937
jasmonic acid 5192, 5531, 5989, 8783
Kartolin 6855
kinetin 3677, 5937, 5993, 7729
oligosaccharides 2944
paclobutrazol 5169, 6852, 8584
polyamines 4471
Polystimulin K 5408
propham 6003
pyrimidines 1800
salicylic acid 2943
seaweed products 1927
thiourea 1765, 5937
uniconazole 8584
hail damage 3681
growth stages 3680
harvesting
mechanization 8546
methods 1773, 5170
harvesting date 407, 2925, 4459, 5195, 6850
harvesting losses 8553
haulm destruction 5165
methods 3640
books 1772
haulms
composition
magnesium 6860
nitrates 6862
potassium 6860
cutting 6853
desiccation 6001, 6853
pulling 6001
heat resistance 5998
cultivars 1807
heat stress 1804, 5201
herbicides 3809
aclonifen 5969
clopyralid 3661
2,4-D 3815
damage 3661
models 8568
diquat 4450
glufosinate 5970
glyphosate 3815
hexazinone 8802
imazapyr 8802
linuron 4465, 5184, 8567
metolachlor 4465, 8567
metribuzin 4450, 4465, 8567-8568
metsulfuron 3661
monolinuron 5970
napropamide 5574
nitrofen 3815
prometryn 5185
residual effects 3661, 8802
sethoxydim 4680, 6866
simazine 3815
TCA 5185

Potatoes *cont.*
herbicides *cont.*
tebuthiuron 8802
thifensulfuron 3661
tolerance 8802
triclopyr 8802
hydroponics, apparatus 5207
inoculation
Agrobacterium radiobacter 2297
Bacillus sphaericus 2297
insecticides
deltamethrin 8576
disulfoton 5982
flutolanil 1147
pencycuron 1147
phorate 5981-5982
propamocarb 1147
residues 5981
tolclofos-methyl 1147
intercropping
Brassica juncea 6847, 7710
maize 6414
Phaseolus vulgaris 4448, 5830
sugarcane 3805, 8547
irradiation, gamma radiation 8589
irrigation 1141-1142, 1769, 3638, 3643, 4469, 5178, 5980, 5995, 6414, 7714, 8551
fertigation 3650, 4459
furrow irrigation 4449, 4453, 5943
growth stages 5199
overhead irrigation 5943
reviews 3639
saline water 3684, 7909, 8552
sewage effluent 1911
sprinkler irrigation 4453, 4459, 5168, 5942-5943
trickle irrigation 3650, 3682, 4454, 5942-5943, 8552
irrigation requirements 4453, 8747
irrigation scheduling 5942
models 5200, 5944
land use 573, 1344
leaf area 1150, 1155
measurement, image processing 4490
models 4491-4492
leaf area index 5941, 5994, 6851
leaf water potential 1155
leaves
anatomy 5408
canopy
gas exchange 2300
light, interception 5994
reflectance 5994
temperature 5200
cells, ultrastructure 8576
composition
boron 409, 7719
calcium 409, 5188, 7719
chlorophyll 6876, 8576
copper 409
glycoalkaloids 1797
iron 409
magnesium 5188
manganese 409
nitrates 1151, 3644
nitrogen 409, 1151, 5188, 5962, 7716
phosphorus 409, 5188, 5962
potassium 409, 5188, 5962
proline 1155
proteins 2304
sesquiterpenes 5196
sugars 8587
sulphur 409, 5188, 7719
zinc 409
enzymes 4489, 7723, 8576
growth 1150
photoperiod 6876
temperature 3683
growth regulators 4487, 5201
growth stages 3669
initiation, temperature 3683
metabolism, proteins 2304
mitochondria, composition, proteins 1795
number 1150
respiration 8576
senescence 1150
growth regulators 5531
size, number 6876

Potatoes *cont.*
leaves *cont.*
stomatal resistance 1156
water stress 1141, 1155
water relations 8587
water stress 1156
light 1801, 2302
blue light 414, 3634, 3679, 8585
interception 2922, 7731, 8574
quality 2924
red light 414, 3679, 8585
white light 3634
metabolism
carbohydrates 4486, 5983
DNA 5996
fatty acids 410, 4472, 7726
lipids 411
nitrates 3666
nitrogen 6869
polyamines 6868
proteins 5996
putrescine 6868
starch 3823, 5983
sucrose 1790
sugars 7723, 8578
mineral nutrition
books 6215
boron 403
toxicity 2302
cadmium 5958
calcium 1149
computer software 7947
deficiency 6183
diagnostic techniques 3063
foliar diagnosis 7719
magnesium 409
models 7947
nitrogen 1150-1151, 1775, 3664, 5984
foliar diagnosis 5188
phosphorus 2949
deficiency 4489
potassium 5984
foliar diagnosis 1776
reviews 3663
sulphur, deficiency 7719
mineral uptake
boron 4456
cadmium 1911
calcium 2942
heavy metals 1157
lead 1911
magnesium 2942, 6860
manganese 4456
nitrogen 1151, 1311, 2942, 3642, 3664, 4456, 5166, 5172, 5174, 5953, 5956, 6858, 6863, 8768
phosphorus 2942, 4456, 5956, 5960, 6858, 7717
potassium 401, 2942, 3664, 4456, 6860, 8755
promethium 3844
sulphur 5956, 5960
trace elements 2942
zinc 1157, 1911, 4456
mulches 7714
composts 2931
plastic film 5167, 8549, 8551
rice straw 8551
straw 2924
multiple cropping 7052
Cyamopsis tetragonoloba 8734
Eleusine coracana 6138
Eragrostis tef 7901
groundnuts 6138
maize 5325, 8734
okras 8734
soyabeans 8734
Vigna radiata 5325, 8734
wheat 5325
mycorrhizas 2949, 4489
nematicides
aldicarb 4014
oxamyl 2296
nitrification inhibitors 3642-3643, 5175, 7398, 7716
nitrogen fixation 6000
Panama 8544
pest control
cultural control 4014
nematicides 4014

Potatoes *cont.*
pests
Globodera 4466
Globodera pallida 1145-1146, 2296-2297, 2299, 2939, 6867, 8571-8572
Globodera rostochiensis 2298, 5972, 8572
Heterodera 4466
Leptinotarsa decemlineata 8569
Meloidogyne 4466
Ostrinia nubilalis 8570
plant parasitic nematodes 4014, 5973
Pratylenchus penetrans 4014
petioles
composition
cadmium 1143, 5958
nitrogen 401
phosphorus 401, 3650
potassium 401, 1776
photoperiod 414, 1801, 3679, 6876, 8585
photosynthesis 1146
air pollution 8587
cell culture 5991
diseases 1148, 1788
gas exchange 8587
light 3679, 8585
mineral nutrition 409
models 2300
photosystem II 1148, 5998
soil temperature 1806
temperature 1806, 5998
water stress 790, 1141, 1155
phytoalexins, elicitors 4472
plant competition, weeds 5971
plant density 1768, 3637, 4451, 4477, 5164-5165, 5953
plastids, translocation, carbohydrates 5983
Poland 1905
bibliographies 5211
pollen
fertility 3670
viability 3670
pollution
cadmium 1911, 5355, 5957-5958, 7942
caesium 7078
cobalt 7942
copper 5176, 5355
heavy metals 1157, 1936, 5202, 8588
lead 1911, 5355
promethium 3844
radionuclides 3844, 5354, 7078
zinc 1157, 1911
precipitation 406
production possibilities
Iran 5198
Mexico 8543
Netherlands 2948
protected cultivation, plastic film 8554
relay cropping, wheat 5325
remote sensing
identification 3098, 7087, 7951
radar 7950-7951
reports 6204
respiration 7722
mineral nutrition 409
roots
bacteria, *Pseudomonas* 5204
composition
glycoalkaloids 1797
magnesium 6860
potassium 6860
proteins 5204
distribution
cultivars 1803
soil compaction 7731
water stress 1803
enzymes 2949, 4489
growth, soil compaction 7731
length 415
measurement 3539
metabolism
ethylene 2949
fatty acids 7726
phenolic compounds 2949
respiration 4489
rotations 1910, 1933, 4639, 8807
barley 2920, 7062
Capsicum 5162

Potatoes *cont.*
- rotations *cont.*
  - carrots 5162
  - cauliflowers 5162
  - cereals 2298
  - fallow 512, 5962
  - maize 2920, 4468, 5935, 5962
  - melons 5162
  - okras 5162, 5935
  - peas 4468
  - radishes 5162
  - rye 2920
  - *Sorghum sudanense* 4468
  - sugarcane 3805
  - sweetcorn 4468
  - tomatoes 5935
  - *Vigna radiata* 5935
  - *Vigna unguiculata* 5935
  - wheat 4468, 5962, 7062
- salinity 1808, 2302, 5992
  - cultivars 3684
  - growth stages 3684
- salt tolerance, cultivars 1808
- seed inoculation, *Pseudomonas*, reviews 3090
- seed tubers
  - aging 1140, 6873
    - growth regulators 5946
    - temperature 5946
  - dormancy 8580
  - dormancy breaking
    - growth regulators 3635, 5945
    - temperature 5945
  - enzymes 6873
  - metabolism
    - hydrocarbons 6873
    - lipids 6873
    - starch 6873
    - sugars 6873
  - microtubers 5938
  - physiological age 1140, 2922, 3633
  - planting date 2922-2923, 3636, 4453, 4487, 5166, 5941, 6849-6851, 7712-7713
  - planting methods 5939
  - planting rates 1767, 5164, 5938, 8548
  - production 5937-5938, 5940
    - desiccants 3640
    - growth regulators 5945-5946
    - India 5949
    - Indonesia 2921
    - reviews 400
    - Switzerland 8580
    - tissue culture 3635
    - true seeds 3641, 5939
    - UK 1767
  - size 1767, 1784, 4452, 5165, 5939, 8548
  - sprouting 1140, 2922, 5937, 5951, 6873
    - growth regulators 3635, 5945
    - inhibitors 1765, 6003
    - light 3634, 6848
    - temperature 5945, 6848
  - sprouts, number 2922
  - storage 2922, 6873
    - sprout inhibition 6003
    - temperature 1807, 5163, 5945-5946
  - treatment 2922
    - fungicides 4450
    - growth regulators 1765, 5936-5937
    - herbicides 4450
    - potassium nitrate 5937
    - trace elements 5177
- seedling emergence 3813
- shading 4477
- shelterbelts 6180
- shoots
  - composition
    - boron 4456
    - manganese 4456
    - nitrogen 4456
    - phosphorus 4456
    - potassium 4456
    - zinc 4456
  - mitochondria, composition, proteins 1795
- soil
  - biological activity in soil 1910

Potatoes *cont.*
- soil *cont.*
  - copper 5176
  - depth 2302
  - humus 8795
  - nitrate, leaching 1769
  - nitrogen 529
  - organic matter 1311, 1933
  - phosphorus 5331, 6182
  - potassium 1300, 1430, 1776, 5331
  - sodic soils 2302
  - zinc 1914
- soil amendments
  - dolomite 3060
  - lime 3060, 3653, 5957
    - models 8751
    - residual effects 3056
  - slags 1916
- soil compaction 1810, 1934-1935, 2296, 2302, 3841, 4477, 5536, 7711, 7730-7731
- soil conservation, terraces, Rwanda 3685
- soil fertility 8794-8795
  - models 8751
- soil inoculation
  - *Arthrobacter* 6000
  - *Flavobacterium* 6000
  - *Pseudomonas*, reviews 3090
- soil pH 6157, 8571
- soil physical properties 1809, 7711
- soil properties 6874
- soil temperature 1806, 2302, 5167, 8549
- soil types 1809, 6182, 8553, 8794
  - peat soils 7077
- soil water 8807
- soil water content 1430, 1801-1802, 2947
- soil water potential 1154
- *Solanum tuberosum* subsp. *andigena* 3678
- solar radiation 416
  - growth stages 4485
  - interception, determination 5994
  - Poland 4485
  - use efficiency 8574
- spacing 3637, 4451-4452, 5165, 5938-5939
- stems
  - composition
    - glycoalkaloids 1797
    - nitrates 1151, 1775
    - nitrogen 1151, 5950
  - cutting 5948, 5954
- stolons, length 406, 2932
- temperature 416, 1801, 1804-1806, 2302, 3636, 3683, 4486-4488, 5166-5167, 5200-5201, 5941, 5998, 8549
  - heat sums 6851, 6877
    - models 417
- tissue culture 4484
  - apical meristems 6869
  - carbon dioxide 413
  - culture media 413, 5993, 7729, 8583
  - enzymes 4482, 7726
  - explants 3677, 4483, 8583
  - growth media 2945
  - growth regulators 413, 1799-1800, 2945, 3677-3678, 4481, 4483, 5989, 5993, 7729, 8584
  - light 5993
  - metabolism
    - fatty acids 7726
    - proteins 4482
    - starch 4482
    - sugars 4482
  - organogenesis 5989
  - photosynthesis 5187
  - regenerative ability 4483
  - roots 7726
  - salinity 5992
  - sucrose 4481
  - temperature 4481-4482, 8583
  - tubers
    - initiation 2943, 3677-3678, 4481, 5993, 8583-8584
      - culture media 7729
      - growth regulators 2944, 7729
- translocation
  - calcium 3664
  - carbohydrates 4486
  - nitrogen 3664
  - phosphorus 1794, 3664

Potatoes *cont.*
- translocation *cont.*
  - photosynthates 1804
  - polyamines 4471
  - potassium 3664
  - putrescine 4471
  - source sink relations 3664
- transpiration 1146, 3071
  - cultivars 5980
- transplanting 2921
- tropics, reviews 2302
- true seeds 399
  - production, Latin America 7981
  - progeny production 6854
  - seed germination 2921
  - yields 6854
- tubers
  - accumulation, starch 408
  - anatomy 1792
  - cell membranes
    - composition, fatty acids 5205
    - enzymes 8579
    - irradiation 5205
    - permeability 4480, 8589
  - cell walls
    - calcium 6875
    - ultrastructure 1149
  - composition 5952
    - alkaloids 3655
    - amino acids 2923, 3665, 5979, 6000
    - antioxidants 6002
    - aromatic compounds 5984
    - ascorbic acid 2923, 2927, 3655, 6000
    - ash 2923
    - boron 4456
    - cadmium 1143, 1936, 5957-5958
    - calcium 2923, 3666, 3675
    - carbohydrates 3672
    - chlorophyll 3674
    - chromium 1936
    - copper 1936
    - crude protein 5166
    - dry matter 1801, 2923, 3687, 5210, 5961, 5997
    - fructose 5208
    - glucose 407, 5208
    - glycerol 8621
    - glycoalkaloids 1797, 3674
    - lead 1936
    - lectins 4479
    - lignin 3672
    - magnesium 2923, 3672, 6860
    - manganese 4456
    - nickel 1936
    - nitrates 1151, 1774, 2926-2927, 3643-3644, 3652, 3666, 3687, 5178, 5194-5195, 6852, 6855, 6862, 6874, 8555
    - nitrogen 401, 1151, 4456, 5166, 5174, 5950, 8556
    - organic acids 1149, 3655
    - pectins 1149, 3672
    - phosphorus 401, 1794, 2923, 4456
    - potassium 401, 1776, 2923, 3651, 3666, 3675, 4456, 6860
    - proteins 2923, 2927-2928, 3637, 3665, 3672, 4479
    - reducing sugars 1154, 1801, 3665, 3673, 5208, 5997
    - starch 2923, 2927-2928, 2934, 3637, 3651-3652, 3654-3655, 3675, 3687, 4639, 5169, 5177, 5210, 5961, 8555, 8773
    - sucrose 407, 5208
    - sugars 1149, 3686, 5169, 6004, 6850
    - trace elements 5177
    - zinc 1936, 4456
  - damage 411, 3675, 4479, 5999
    - bruising 5197
    - cultivars 1773, 5979
    - mechanical damage 1773
    - resistance 1773
  - development 1792, 2301
  - discoloration 5951
  - disorders 417, 1154, 4470

Potatoes *cont.*
tubers *cont.*
disorders *cont.*
cultivars 4469, 5979
hollow heart 5980
dormancy 3667
electrical properties 4480, 5999
determination 4480
enzymes 410, 412, 1152-1153, 1790, 2301, 2944, 4473-4476, 5176, 5189-5191, 5985, 5987, 6870-6872, 7723-7724, 8577-8578
frost injury 5999
gene expression 1792
greening 3674
growth 4455
reviews 1791, 5990
temperature, models 6877
initiation 3678, 4455, 6868
growth regulators 5192, 5947, 5990
reviews 5193
temperature 4488
models 6877
insecticide residues 5982
irradiation, gamma radiation 5205
light
blue light 2946
red light 2946
maturity stage, determination, techniques 6001
mechanical properties 5197, 6001, 8582
metabolism
amino acids 3665
antioxidants 6002
carbohydrates 5990
chlorophyll 2946
enzymes 1152
fatty acids 410
lipids 411
proteins 3665, 4479
protochlorophyll 2946
starch 8773
sucrose 1790
sugars 7723, 8578
mitochondria
composition, proteins 1795
electric potential 1798
enzymes 5986
respiration 3662, 5986, 7722
number 1768, 5164, 5941, 6849
periderm 5210
composition, suberin 5176
pH 3666
physical properties 8582
quality 1142, 1776, 3640, 3651, 3687, 5176, 5951
cooking quality 1774, 3665, 5961, 5997
cultivars 4462
processing quality 407, 1154, 1782, 1801, 5199, 5961, 6850
cultivars 3658-3659
reviews 5171
respiration 3686
roots 2932
size 1154, 1774, 1809, 2304, 4452, 5164, 5199, 5947, 8548, 8550, 8582
models 7728
reviews 1791
specific gravity 407
sprout inhibition 2307
sprouting 5209, 5954
enzymes 7723
growth regulators 1766
inhibitors 1766, 6003-6004, 8581
sprouts, growth regulators, detection 8590
storage 3666, 5176, 7718
composition 1149, 3665, 5208, 6002
cultivars 3687, 5210
deterioration 2307
diseases 5209
enzymes 3676, 7723
irradiation 8589
light 3674
losses 3687, 5209-5210, 5954

Potatoes *cont.*
tubers *cont.*
storage *cont.*
metabolism 3665
processing quality 6850
quality 3665, 5961
respiration 3686
sprout inhibition 6003
temperature 1149, 1807, 3665, 3676, 3686, 5208-5209, 6004, 8589
storage decay 5954
temperature 4480, 5999
treatment
growth regulators 1766, 2307
hydrogen cyanamide 1766
sodium hypochlorite 2307
weight 6849, 8582
vegetative propagation
cuttings 4457, 5940
micropropagation 1799, 3671, 3677
water relations 4477, 5995
water requirements 2302
water stress 415-416, 1141-1142, 1145, 1154-1156, 2303-2304, 5203, 5408, 5995-5997
cultivars 1803
growth stages 3682, 5199
models 5200
reviews 6178
water supply 1344
water use 1142, 1931, 3071, 5942
water use efficiency 1142, 1145-1146, 3071, 5943, 7714, 8550
weed control 5971
cultivation 4465, 6866, 8567
cultural control 5574
herbicides 3815, 4465, 4680, 5184-5185, 5574, 5969-5970, 6866, 8567
integrated control 3815, 4465
manual weed control 3815, 5184-5185
plant residues 4465
weeds
Amaranthus retroflexus 4465, 8567
Chenopodium album 4465, 5971, 8567
Convolvulus arvensis 5184
Cynodon dactylon 5184
Cyperus esculentus 5574
Cyperus rotundus 5184
Elymus repens 4680, 5971, 6866
Eupatorium 3815
Galinsoga ciliata 4465, 8567
Imperata cylindrica 3815
Lantana camara 3815
wind 5200
yield components 5180
cultivars 1781
yield correlations 4478, 5180
cultivars 1781, 4461, 8561
Czech Republic 8794
yield forecasting 418, 1802
models 7732
yield targets, Poland 1793
yields
models 1430, 5206, 7948, 8591
remote sensing 5206
weather, models 3102
Precipitation
barley 105, 554, 1488, 4032, 6377, 8072, 8145
interception 4202
Brassica juncea 5350
buckwheat 554
China, Yunnan 7937
Cicer arietinum 5350
cotton 2964
Cyamopsis tetragonoloba 5350
Eleusine coracana 1598
forecasting, models 4675
groundnuts 4289, 8383
Hibiscus cannabinus 6046
India, Maharashtra 6562
Israel 582
Lupinus luteus 6820
maize 1493, 2579, 5769, 7362-7363
interception 4202
stem flow 148
models 2408, 3103

Precipitation *cont.*
oats 1449, 1452
peas 6733
Pennisetum glaucum 260, 5350
West Africa 954
potatoes 406
rape 1230
rice 912, 6558, 6562
rye, interception 4202
sorghum 7048
soyabeans 3495, 5769, 7362-7363, 7497
sugarbeet 554, 7704
sunflowers 554
Vicia faba 1705, 6742
Vigna mungo 6786
Vigna radiata 5350
Vigna unguiculata 5350
wheat 32, 554, 2429, 3190, 4675, 6223, 6246, 7186, 7198, 8072
Proso millet (*see Panicum miliaceum*)
Protoplasts, isolation, reviews 3836
Psophocarpus tetragonolobus
chemical composition, amino acids 8474
cultivars, India 4416-4417
growth regulators
abscisic acid 4418
gibberellins 4418
IAA 4418
intercropping, maize 128
metabolism, proteins 3613
nodules, number 6822
production possibilities, Vietnam 377
salt tolerance 3613
seed anatomy 4418
seed germination
growth regulators 4418
imbibition 4418
seed morphology 4418
seeds
composition
fatty acids 5914
lipids 5914
proteins 4420
growth regulators 4418
hard seeds 4418
imbibition 4418
soil types 6822
staking 6822
yield components 4416-4417
yield correlations 4417
Puerto Rico
Xanthosoma atrovirens, cultivars 8598
Xanthosoma caracu, cultivars 8598
Xanthosoma violaceum, cultivars 8598
Radiation (*see also* Light)
Rainfall (*see* Precipitation)
Rape
accumulation, selenium 6971
agricultural meteorology 4707
Europe 599
Irish Republic 3118
UK 3118
allelopathy 1333
catch crops 463, 2372, 7897
cell culture
protoplasts 1864, 4577
regeneration 2996
cell cultures
composition, potassium 8675
enzymes 4571, 8674
growth regulators 8675
herbicides 4571
metabolism 4571
growth regulators 8675
sugars 8675
cells
enzymes 4577
ultrastructure 4577
chemical composition
anions 469
boron 6162
calcium 6161, 8458
cations 469
copper 2339, 6162
elements 4567
glucosinolates 3748
growth regulators 1862
iron 6162
lithium 549
magnesium 6161
manganese 6162

Rape *cont.*
- chemical composition *cont.*
  - molybdenum 6162
  - nitrogen 469, 6161
  - phosphorus 6161, 8458
  - potassium 6161
  - selenium 6971
  - sodium 6161
  - sulphur 6965
  - zinc 2341, 6162
- climatic change, models 1940
- cold injury 8680
- cold resistance 6976
  - cultivars 2997
  - growth regulators 1226
- conferences 1362, 5375
- cotyledons, enzymes 2991
- cover crops 517-518
- crop husbandry, Australia, Western Australia 6126
- cultivars
  - Bangladesh 1231
  - Canada 5273
    - Alberta 482
    - British Columbia 482
    - Manitoba 464
  - classification 1855
  - Denmark 2384, 8758
  - France 7918
  - Hungary 8677
  - Italy 8666-8667, 8669-8670
  - Netherlands 6148-6149
  - Poland 2348
  - Sweden 1233, 7822
  - USA, Georgia 1234
  - Arabella 2342
  - Aspen 1858
  - Eurol 2342
  - Humus 1857
  - Idol 2342
  - LEI III 1856
  - Libravo 2342
  - Tamlayuchae 5274
- cultivation
  - chiselling 3841
  - methods 521
  - no-tillage 521
- cutting 1852
- diseases
  - *Leptosphaeria maculans* 2991
  - *Pseudomonas fluorescens* 7084
- drought resistance 7828
- dry matter accumulation, models 1251
- energy sources 7827
- enzymes
  - adenosinetriphosphatase 2990
  - aminotransferases 665
  - glutamate-ammonia ligase 4571
  - glutamate dehydrogenase 2344
  - hydrolases 2991
  - nitrate reductase 1861
  - oxidoreductases 2214, 5275
  - peroxidases 2997, 4577
  - phosphotransferases 7928
  - ribulose-bisphosphate carboxylase 3745
  - transferases 470, 2343, 5277, 8674
  - triacylglycerol lipase 472
- fertilizers
  - boron 1232, 2386, 4566
    - requirements 4567
  - nitrogen 468, 1225, 1229-1230, 1232, 2348, 2735, 4568, 5269, 6161-6162, 6965
    - application date 467
    - application methods 7908
    - requirements 4567
    - residual effects 2988
    - sources 2339, 3609
  - NPK fertilizers 1231
  - phosphorus 468, 1230, 1232, 6966, 8458
    - application methods 4813, 7908
    - sources 5329
  - potassium 1232, 6968
    - application methods 7908
    - requirements 4567
    - sources 1306
  - sewage sludge 1936
  - slurries 2735
  - straw 2735

Rape *cont.*
- fertilizers *cont.*
  - sulphur 1306, 2340, 4569, 5272, 6965
    - application date 1854, 6066
    - requirements 4567
    - sources 1853-1854, 6066
  - zinc 1310, 2341
- field experimentation, border effects 3092
- flowering 7825
  - induction 6067
- flowers
  - development, temperature 5281
  - nectar
    - concentration 4573
    - production 4573
- frost resistance
  - cultivars 3749
  - estimation 3749
- fungicides, triadimenol 1861
- green manures 7897
- growth
  - models 1251
  - temperature 5281
- growth analysis 478
- growth period 482
- growth regulators
  - abscisic acid 6172, 6969, 8675
  - adenosine 6174
  - BAS111W 6172, 7820, 8675
  - benzyladenine 2995-2996, 6972
  - brassinolide 3747
  - brassinosteroids 5804
  - chlormequat 1226-1227
  - cytokinins 1862
  - 2,4-D 2996, 3747, 6972
  - daminozide 4566
  - ethephon 1226, 7820
  - gibberellins 2995, 3747, 5278, 6067, 6969
  - IAA 3747, 6972
  - isopentenyladenine 6972
  - NAA 2995-2996, 6972
  - paclobutrazol 1226, 4566
  - pyrimidines 7820
  - triacontanol 6174
  - triapenthenol 1225-1227, 5271, 7820
  - triazoles 1226, 1852, 4565, 5279, 6172
  - zeatin 6972
- growth stages, classification 5347
- harvest index 2989
- harvesting 1228
  - machinery 466
  - methods 466, 7821
- harvesting date 466, 1228
- harvesting losses 466, 7821
- heat stress 6975
- herbicides
  - benazolin 1859
  - clopyralid 1859, 4570
  - diethatyl 4570
  - dimethachlor 4570
  - glufosinate 3745, 4571
  - isoproturon 6966
  - metazachlor 1859, 4570
  - napropamide 4570
  - nitrofen 4570
  - pendimethalin 6966
  - propyzamide 4570
  - sethoxydim 4680
  - simazine 4570
  - TCA 4570
  - tolerance 1235
  - triazines 1235
  - trifluralin 4570
- intercropping, wheat 8742
- ion balance 469
- irradiation, ultraviolet radiation 6974, 8679
- irrigation 5270
- leaf area index 478
- leaf water potential 1873
- leaves
  - composition
    - fatty acids 476
    - nitrates 1861
  - enzymes 1861, 2214
  - irradiation 6974
  - metabolism
    - fatty acids 476

Rape *cont.*
- leaves *cont.*
  - metabolism *cont.*
    - proteins 5280
  - protoplasts, enzymes 2344
  - salinity 5280
  - temperature 476
  - turgor 1873
  - water content 1873
  - water stress 1873, 5280
- light 2214
  - blue light 8679
  - far red light 8679
  - red light 8679
- light intensity, cultivars 1235
- maturity stage 465
- metabolism
  - ammonia 4571
  - chlorophyll 475, 8673
  - fatty acids 470, 1860, 5275
  - glucosinolates 474, 5276
  - lipids 470-471, 5275
  - proteins 5280, 6967
- mineral nutrition
  - boron 2386-2387
  - calcium 4591
    - deficiency 3746
  - computer software 7947
  - models 7947
  - nitrogen 469, 1861, 6161-6162
    - deficiency 4578
    - sources 3609
  - phosphorus, deficiency 3746
  - potassium, deficiency 3746, 6968
  - selenium 6971
  - sulphur 2340
  - zinc 1310
- mineral uptake
  - calcium 8458
  - lithium 549
  - nitrogen 3609, 8051, 8769
  - phosphorus 1318, 8458
  - potassium 6968
  - sulphur 3609, 6965
- multiple cropping
  - barley 1907
  - *Triticum durum* 8666
  - *Vigna radiata* 8458
  - wheat 1907
- nitrogen fixation, mineral nutrition 3609
- pests
  - geese 4572
  - nematodes 5285
- photoperiod 6067, 6992
- photorespiration, herbicides 3745
- photosynthesis
  - herbicides 3745
  - light harvesting complexes 532
  - oxygen 5824
- plant competition 2998
  - barley 1236
  - weeds 8671, 8799
- plant density 465, 478, 1225, 2998
- plant height 465
  - growth regulators 5271
- pollen
  - cells, ultrastructure 4576
  - development 4576
    - temperature 6970
  - growth regulators 5804
  - storage 3747
- pollen germination 3747
- pollination 7826, 8678
- pollution, heavy metals 1936
- precipitation 1230
- protoplasts
  - isolation 2344
  - photosynthesis 5824
  - respiration 5824
  - viability 4577
- remote sensing, identification 7087
- reproduction, temperature 6975
- respiration 7823
  - oxygen 5824
- root hairs 1318
- root shoot ratio 4578
- root systems, cultivars 2347
- roots
  - composition
    - calcium 4591
    - chloride 4591

Rape *cont.*
roots *cont.*
composition *cont.*
potassium 4591
proteins 2997
sodium 4591
metabolism
lipids 3746
phosphatidylcholines 3746
respiration 7823
rotations
barley 463, 5269
fallow 5269
oats 5269
rye 5269
wheat 463, 5269
salinity 3750, 4591, 5280
salt tolerance 3750
seed development 8678
metabolism 471
seed dormancy, growth regulators 6969
seed germination
allelopathy 1333, 5286
enzymes 2990
growth regulators 6969
mineral nutrition 4591
salinity 4591
storage 3856
seed inoculation, *Pseudomonas fluorescens* 7084
seed maturation 2994, 8674
seed testing 1865
seed treatment
accelerated aging 3856
coating 1865
fungicides 1861
osmotic pretreatment 1865
seedbed preparation 7819
seedling emergence
soil compaction 7819
sowing depth 7819
seedlings
allelopathy 5286
cotyledons
greening 8673
light 8679
metabolism, chlorophyll 8673
senescence 8673
growth regulators 5278, 5804
seeds
chemical composition
lipids 1232
proteins 1232
composition
amino acids 8677
cadmium 1936
chlorophyll 464, 475
chromium 1936
copper 1936
elements 8692
fats 2348, 8692
fatty acids 1855, 4570, 6083, 7827
glucosinolates 474, 1853, 2341, 2345, 2992, 4568, 5272, 6066, 7827
determination 8676
growth regulators 6969
lead 1936
lipids 4670, 7827
mucilages, cultivars 5273
nickel 1936
nicotinic acid 8692
oils 464, 1229, 1328, 1851, 1853, 2341, 4670, 7822, 8668
phenolic compounds 8692
phytic acid 8692
protein 464
proteins 811, 1229, 1851, 2346, 2348, 4568, 4570, 4670, 7827, 8677, 8692
riboflavin 8692
sinapine 8692
zinc 1936, 2341
drying 475
embryos
composition, proteins 6068
metabolism
fatty acids 470
glucosinolates 5276
lipids 470

Rape *cont.*
seeds *cont.*
enzymes 2990, 8674
mechanical properties 1863, 2993-2994
friction 4574
metabolism 1237
chlorophyll 475
glucosinolates 474
lipids 471, 4670
oils 4670
proteins 4670
moisture content, determination 6085
respiration 1237
storage
moisture content 1237
temperature 1237
translocation, oils 7824
ultrastructure 1328
viability 1865
storage 3856
water relations 7824
shoots
composition
calcium 4591
chloride 4591
potassium 4591
sodium 4591
soil
nitrogen 1230
phosphorus 1230
sulphur 4569
soil amendments
lime 2339, 8458
slags 1916
soil compaction 3841, 7819
soil fertility 6968
soil inoculation, *Pseudomonas fluorescens* 7084
soil pH 2348
soil types 6126
peat soils 7077
soil water content 521, 549
sowing date 397, 475, 1851, 2345, 3744, 7906, 8668, 8672
sowing depth 7819
sowing methods 7908
broadcasting 8668
sowing rates 464, 3744, 4565, 8667-8668
space science 1864, 4577
spacing 1225
stems
internodes, length 473
length, cultivars 473
mechanical properties, measurement 4575
sterility, male sterility 1862
Sweden 3762
temperature 476, 1230, 5281, 6970, 8680
heat sums 475
tissue culture
cell division 6069
culture media 4578, 7825
embryo culture 5276
enzymes 2343
embryogenesis 6972
embryos 1860
enzymes 4571
explants 6069, 8678
flowering 7825
flowers 2995, 8678
growth regulators 2995
herbicides 4571
metabolism 1860, 4571
starch 6069
organogenesis 6070
pods 2995
regenerative ability 6069
roots 6070
salinity 3750
translocation
photosynthates 7823
proteins 6967
vegetative propagation, micropropagation 8540
water stress 1873, 2348, 5280, 7828
water uptake, cultivars 2347
water use, models 5270
weed control
herbicides 1859, 4570, 4680, 6966, 8672

Rape *cont.*
weed control *cont.*
manual weed control 6966, 8672
reviews 8799
weeds
Elymus repens 4680
Stellaria media 8671
yield components 1231, 1234
growth regulators 5271
yield correlations 465, 478
yields
trends, India 3803
weather, models 3102
Raphanus sativus
allelopathy, *Imperata cylindrica* 4584
root shoot ratio 4584
seed germination, allelopathins 4584
sowing date 3776
Raphanus sativus* var. *oleiformis
catch crops 7897
chemical composition
boron 6162
calcium 6161
copper 6162
iron 6162
magnesium 6161
manganese 6162
molybdenum 6162
nitrogen 6161
phosphorus 6161
potassium 6161
sodium 6161
zinc 6162
diseases, *Pseudomonas fluorescens* 7084
fertilizers
nitrogen 6161-6162
use efficiency 8757
phosphorus, use efficiency 8757
potassium, use efficiency 8757
green manures 7897
mineral nutrition, nitrogen 6161-6162
roots
development 3074
growth 3074
length 3074
morphology 3074
seed inoculation, *Pseudomonas fluorescens* 7084
soil inoculation, *Pseudomonas fluorescens* 7084
Relay cropping
barley 2534
cassava 6134
Cicer arietinum 513
cotton 513
groundnuts 6134
Linum usitatissimum 513
maize 6134
peas 513
Pennisetum glaucum 948
potatoes 5325
rice 513, 6134
soyabeans 1299, 2534, 3460
sunflowers 513
Vigna mungo 513
Vigna radiata 5325
wheat 513, 948, 1299, 3460, 5325
Remote sensing
barley 2083, 5714
growth stages 2082
books 1369
cereals
identification 3098
reflectance 3097
cotton 1947, 7957
identification 1342
yield forecasting 3858
Croatia 7956
Developing Countries 7952
drought, France 2058
Egypt 7958
Europe 2058
European Communities 7953
France 7216
Greece 7957
irrigation 6192
land use
Costa Rica 1949
France 8803
Italy 3859
Sahel 1948

Remote sensing *cont.*
land use *cont.*
Saudi Arabia 3857
Spain 3099, 5714
UK 1950
USA, Florida 3100
leaf area index, estimation 8804
leaves
canopy 567, 7086
reflectance 569
thermal radiation 3095
reflectance 3096
Linum usitatissimum, reflectance 3097
maize 5714, 7195, 7373, 7957
identification 1342, 7087
polarization 2130
yield forecasting 3858
microwave radiation 6193
models 1664, 5363
oats
crop residues 3979
identification 7087
peas, identification 3098
Pennisetum glaucum 260
yield forecasting 2716, 7477
yields, estimation 2175
Phaseolus vulgaris
leaves, reflectance 2245
water stress 8452
photosynthesis, estimation 2194
Portugal 7954
potatoes
identification 3098, 7087, 7951
radar 7950-7951
yields 5206
rape, identification 7087
rice 568, 2698, 7957
identification 1342, 2699, 3859
yield forecasting 3858
rye, identification 7087
Slovenia 7956
sorghum 1947, 7471
yield forecasting 2716
yields, estimation 6618
soyabeans 1664, 1947, 2698, 8353
polarization 2130
water stress 2130
Spain 6192, 7955
sugarbeet 1763
computer software 5159
identification 1342, 3098, 7087, 7951
radar 7950-7951
reflectance 3097
yield forecasting 2917
sunflowers 7957
techniques 570-571
tobacco 7957
vegetation
crop damage, landfills 1343
monitoring 572, 7085
Vigna unguiculata 7471
waterlogging, estimation 7938
wheat 2517-2518, 5714, 7195, 7373, 7957
crop residues 3979
ground cover, estimation 5479
growth 2517-2518
identification 7087, 7951
Italy 2058
radar 7950-7951
Triticum durum 7216, 7957
Italy 2058
yield forecasting 2520, 3858
yields, estimation 2519, 7214
yield forecasting 7085
Sahel 7959
Yugoslavia 7956

Reports
Australia
Bureau of Sugar Experiment Stations 3865
Department of Agriculture and Rural Affairs 7968
Department of Primary Industry and Fisheries 4690
Department of Primary Industry and Fisheries, Northern Territory 3866
Institute for Sustainable Agriculture 583

Reports *cont.*
Australia *cont.*
Northern Territory Department of Primary Industry and Fisheries, Horticulture Branch 1952
Belgium
Nationaal Centrum voor Grasland- en Groenvoederonderzoek 5366-5367
Provinciaal Onderzoek- en Voorlichtingscentrum voor Land- en Tuinbouw, Beitem-Roeselare 7969
Botswana, Ministry of Agriculture 3867
Brazil, Empresa Capixaba de Pesquisa Agropecuaria 3868
Canada
Agricultural Research Institute of Ontario 7096
Agriculture Canada 2410, 3869
Station de Recherche de Saint-Jean-sur-Richelieu 8809
Colombia, Centro Internacional de Agricultura Tropical 7970
Costa Rica, Ministerio de Agricultura y Ganaderia 4691
Côte d'Ivoire, West Africa Rice Development Association 5368
Cyprus, Agricultural Research Institute 7971
France
Institut de Recherches pour les Huiles et Oléagineux 2411
Institut Technique Francais de la Betterave Industrielle 3105
Germany
Bundesforschungsanstalt für Landwirtschaft Braunschweig-Völkenrode 6198, 7972
Kuratorium, Technik und Bauwesen in der Landwirtschaft e.V. (KTBL) 8810
India
Central Potato Research Institute 1352
Central Research Institute for Dryland Agriculture 1354
Central Tobacco Research Institute 6199-6200
Central Tuber Crops Research Institute 6201
Directorate of Rice Research 1355
Indian Agricultural Research Institute 6202
Indonesia, Indonesian Sugar Research Institute 8811
International Cotton Advisory Committee 1956
International Crops Research Institute for the Semi-Arid Tropics 1353
International Potato Center 6204
Irish Republic, Teagasc 8812
Israel, Institute for Agriculture & Applied Biology, Ben-Gurion University of the Negev 1953
Jamaica, Sugar Industry Research Institute 3870-3871
Korea Republic, Rural Development Administration 6203
Luxembourg, Commission of the European Communities 7097, 7973
Malawi, Makoka Agricultural Research Station 2412
Mauritius
Mauritius Sugar Industry Research Institute 7098
Tobacco Board 8813
Nepal, Pakhribas Agricultural Centre 3508, 5369
Nigeria
International Institute of Tropical Agriculture 3106, 5370-5371, 6218, 7975
National Cereals Research Institute 7974
Slovenia, Kmetijski Institut Slovenije, Ljubljana 6206
South Africa
Department of Agricultural Development 2413, 3872-3873, 3875, 8814

Reports *cont.*
South Africa *cont.*
South African Sugar Association Experiment Station 3874
Spain, Servicio de Investigación Agraria 7976
Sweden, Jordbrukstekniska Institutet 8815
Syria, International Center for Agricultural Research in the Dry Areas 3107, 8816
Taiwan, Council of Agriculture 8817
UK
AFRC Institute of Plant Science Research and John Innes Institute 1954
Institute of Hydrology 7099
Morley Research Centre 584
Sugar Beet Research and Education Committee 1356, 2414
USA
Louisiana Agricultural Experiment Stations 6205
North Central Weed Science Society 3876
Zimbabwe, Cotton Research Institute 6207
Reproduction, books 592
Respiration
carbon dioxide enrichment 2675
electron transfer, books 3115
mineral nutrition, reviews 6163
models 8761
Réunion
soil amendments 2377
sowing methods, direct sowing 2377
undersowing 2377
Reviews
agricultural meteorology 1350
air pollution 1337, 8797
dust 1937
nitrogen dioxide 1337
ozone 3845, 5352
sulphur dioxide 1337
anaerobiosis 2390
apical meristems 1324
barley
cultivars, identification, techniques 7290
seed development 967
seeds
endosperm, differentiation 967
metabolism, proteins 111
biomass production 7967
carbon dioxide 3089
Brassica
seeds
composition
oils 3320
proteins 3320
metabolism
oils 3320
proteins 3320
weed control 8799
Cannabis sativa 4540
carbon dioxide enrichment 2396, 3087
cell biology 551, 3836
cell cultures, metabolism, polysaccharides 7935
cell differentiation 6460
cell division 7073
cell membranes
metabolism
fatty acids 5351
lipids 542, 3824
plasma membranes
enzymes 8776-8777
ion transport, calcium 7065
temperature 5351
tonoplast, ion transport, calcium 7065
cell walls
composition 6175
enzymes 7540
physical properties 7932
structure 4672, 6175
cells
adhesion 552
differentiation 5082
endocytosis 5758
endoplasmic reticulum 8309
enzymes 3819

Reviews *cont.*
cells *cont.*
Golgi apparatus 8788
growth 5082, 7932
metabolism 3819
carbohydrates 6165
proteins 6165
microtubules 6457
proteins 3835
organelles
metabolism 3819
secretion 5485
separation 552
vacuoles 5349
cereals
fertilizers, nitrogen, foliar application 6627
grain, quality 2742
harvesting, mechanization 7057
mineral nutrition, iron, deficiency 4972
mineral uptake, nitrogen 6164
nitrogen fixation 1939
seed development 967
seed dormancy 4197
seed germination 4197
seeds, endosperm, differentiation 967
chemical composition
proteins 3831, 6457
trypsin inhibitors 1329
chlorophyll, fluorescence 533
chloroplasts, metabolism, phosphorylation 543
circadian rhythm 553
climate 6177
climatic change 1656, 3087
cotton
defoliants 8604
desiccants 8604
fibres, composition, waxes 3717
harvesting, mechanization 7057
water use efficiency 1191
crop production, spatial variation 8805
cropping systems 4683, 6195
drought 555, 1929
energy relations 7967
enzymes 8775
adenosinetriphosphatase 8776
aspartate-ammonia ligase 4311
glutamate-ammonia ligase 4311, 7419
hydro-lyases 8779
hydrolases 4660
malate dehydrogenase 1924
oxidoreductases 1923
oxygenases 545
peroxidases 4286
phosphotransferases 3821, 3823, 8635
ribulose-bisphosphate carboxylase 3825, 8778
sucrose synthase 800
superoxide dismutase 4661
transferases 7927, 8777
evapotranspiration 2373
farming systems 4683, 6195
sustainability 7960
fertilizers 6183
boron 1309, 2386
molybdenum 2383
nitrogen, use efficiency 1303
phosphorus 7059-7060
zeolites 2378
flowering, growth regulators 3830
frost resistance 7940
gene expression 4311
light 8441
grain
maturation 3822
metabolism 3822
groundnuts
crop management 1014
soil pH 8394
weed control 8799
growth, growth regulators 1326, 3830
growth regulators 8749, 8780
abscisic acid 1569, 2389, 5837, 7922
adenosine 6174
ancymidol 8782
auxins 1883, 4666, 7933
BAS111W 8782
brassinosteroids 3829
cimectacarb 8782

Reviews *cont.*
growth regulators *cont.*
cytokinins 8781
jasmonic acid 293, 5531
mepiquat 8782
paclobutrazol 8782
polyamines 6173
prohexadione 8782
salicylic acid 3830
tetcyclacis 8782
triacontanol 6174
triapenthenol 8782
Guizotia abyssinica, weed control 8799
intercropping 576
irradiation, ultraviolet radiation 3078
irrigation scheduling 2373, 3048
leaves
development 1041
growth 3075
hypoxia 3073
initiation 1041
metabolism
lipids 544
sucrose 800
stomatal movement 3073
legumes
fertilizers, nitrogen 2265
mineral uptake, nitrogen 6164
nitrogen fixation 8526
nodulation 2901
nodules
growth 6186
metabolism 5919
tissue culture 5916
translocation 8526
light, blue light 8441
light intensity 3837
Linum usitatissimum, weed control 8799
Lupinus angustifolius, roots, growth, soil properties 5474
Macrotyloma uniflorum 5140
maize
carbon dioxide enrichment 1656
cell differentiation 6460
fertilizers, nitrogen 2381
leaves
canopy, light 2631
development 1041
plant competition, weeds 785
pollen, development 167
salt tolerance 4946
seeds
composition
oils 3320
proteins 3320
metabolism
oils 3320
proteins 3320
water relations 1330
water stress 1330, 7365
metabolic regulators
calcium 1320, 3821, 6663
calmodulin 1320, 3821, 6663
metabolism 3070
amino acids 1323, 1920
carbohydrates, stress 7924
glyoxylic acid 1923
growth regulators 5837, 8781
lipids 542
nitrogen 537, 3818
ammonium nitrogen 540
phenolic compounds 3830
phosphorus 6163
phosphorylation 543
proline 541, 8771
starch 3823
sulphur 2401, 3820
mineral nutrition, nitrogen 537
mineral uptake 1919, 1926, 6155
sulphur 2401
mycorrhizas 3091, 3849
nitrogen, isotope fractionation 2398
nitrogen fixation 560-561
nodulation, growth regulators 8527
nutation 6062
oats, grain, composition, polysaccharides 7229
oxygen, toxicity 4661
peas
flooding 6178
leaves, development 1041

Reviews *cont.*
peas *cont.*
metabolism, ATP 5049
water stress 6178
Pennisetum glaucum
water relations 1330
water stress 1330
Phaseolus vulgaris
flooding 6178
seed inoculation, *Pseudomonas* 3090
soil inoculation, *Pseudomonas* 3090
water stress 6178
photoperiod 553
photorespiration 8766
carbon dioxide 8765
oxygen 8765
photosynthesis 533, 3061, 7923, 8766
carbon dioxide 8763-8765
enzymes 7929
growth regulators 7922
isotope fractionation 2170, 2399-2400
light 3837
light harvesting complexes 543, 7920-7921
oxygen 8765
photosystem II 8763-8764
phytochrome 553
plant nutrition 3091, 6155, 6183, 7960
aluminium
tolerance 8770
toxicity 1320
arsenic, tolerance 8770
boron 2386
chloride 2180
copper, tolerance 8770
deficiency, boron 1309
heavy metals, tolerance 5357, 8770
iron 6156
deficiency 6153, 6159-6160
toxicity 6153
nitrogen 3818
phosphorus 6163
sulphur 1306
trace elements 2387
plant physiology 547, 1337
pollination 166
pollution
heavy metals 5357
sulphur 2401
potatoes
chemical composition, nitrates 6874
crop management 3663
fertilizers 5171
nitrogen 2381
phosphorus 5959
flooding 6178
irrigation 3639
mineral nutrition 3663
seed inoculation, *Pseudomonas* 3090
seed tubers, production 400
soil inoculation, *Pseudomonas* 3090
tropics 2302
tubers
growth 1791, 5990
initiation, growth regulators 5193
quality 5171
size 1791
water stress 6178
protoplasts, isolation 3836
rape, weed control 8799
respiration, mineral nutrition 6163
rice
cell cultures, Golgi apparatus 7428
cell membranes, cold resistance 4945
cold resistance 6567
fertilizers
nitrogen 7393
sulphur 5638
leaves, senescence 2676
mineral nutrition
aluminium, toxicity 244
silicon 244
sulphur 5638
mineral uptake, silicon 244
plant competition, weeds 785
salt tolerance 4946
seed inoculation, *Pseudomonas* 3090
seedlings
establishment 4106
production 4106
soil inoculation, *Pseudomonas* 3090

Reviews *cont.*
rice *cont.*
transplanting, date 4106
root pressure 6167
roots
anoxia 3083
development, water stress 3072
growth 3834, 6155
growth regulators 4668
soil temperature 3081
length 3828
metabolism 3083
mineral uptake 6155
morphology 3834
rye, cultivars 7235
salinity 3838-3839
salt tolerance 3839
seed certification, Colombia 3051
seed injury 8772
seed maturation 3822
seed production, Colombia 3051
seeds
composition 3320
free radicals 8772
metabolism 3320, 3822
lipids 544
translocation 535
viability 8772
sesame, weed control 8799
Sinapis, weed control 8799
soil, phosphorus 7060
soil fertility 6183
sorghum
drought resistance 6613
mineral nutrition
aluminium, toxicity 244
silicon 244
mineral uptake, silicon 244
water relations 1330
water stress 1330
soyabeans
carbon dioxide enrichment 1656
cells, endocytosis 5758
nitrogen fixation 304-305, 8526
nodulation 6679
phytoalexins 1635
translocation 8526
weed control 8799
statistical analysis, multiple comparison test 3855
stems, light 8441
stomata, light 8441
stomatal movement 4663
calcium 4662
stomatal resistance
growth regulators 6168
water stress 6168
sugarbeet
fertilizers, nitrogen 2381
seed inoculation, *Pseudomonas* 3090
soil inoculation, *Pseudomonas* 3090
sugarcane
intercropping 2362, 7016, 8709
multiple cropping 8709
nitrogen fixation 7894
ratooning 6110
sulphur, isotope fractionation 2401
sunflowers
development 1222
light intensity 1223
photoperiod 1223
plant physiology 455
temperature 1223
water stress 1223
weed control 8799
yield components 1222
yield correlations 1222
techniques, isotopes 1941
temperature 3087
tissue culture, photosynthesis 5187
tobacco
Korea Republic 7846
metabolism
ATP 5049
proteins 5289
translocation 536
source sink relations 1317
triticale, cultivars 7235
tropisms
geotropism, calcium 4669
growth regulators 546

Reviews *cont.*
water relations 2373
water stress 1330, 1929, 3087
water uptake 1926
wheat
carbon dioxide enrichment 1656
dry matter accumulation 668
dry matter distribution 668
fertilizers, nitrogen 2381
heat stress 2050
roots, growth, soil properties 5474
salinity 1435
seed inoculation, *Pseudomonas* 3090
soil inoculation, *Pseudomonas* 3090
temperature 2050
water relations 1330
water stress 1330
winter hardiness 7940
yield forecasting 927

Rice
accumulation
calcium 6132
carbohydrates 2151
magnesium 6132
nitrogen 6132
phosphorus 6132
potassium 6132
agricultural meteorology 6559
Canada 7095
China 7095
Yunnan 4146
Europe 599, 7095
India 7095
USA 7095
agroforestry, Peru 8210
air pollution
acid rain 3846
cultivars 924
sulphur dioxide 5668
allelopathy 7439, 8275
Acacia auriculiformis 5655
Ageratum conyzoides 6554
Alysicarpus vaginalis 6554
Centella asiatica 6554
Croton sparsiflorus 923
Cyperus rotundus 1089
Desmodium triflorum 6554
Echinochloa colonum 1089
Eclipta alba 6554
Erigeron karwinskyanus 693
Erigeron linifolius 693
Fimbristylis dichotoma 6554
Fimbristylis littoralis 6554
Hedyotis corymbosa 6554
Oxalis corniculata 6554
alley cropping
Erythrina 8210
Inga edulis 8210
Leucaena leucocephala 8210
altitude 1580, 7434
anaerobiosis 2390, 4158
anoxia 4158, 4923, 4952, 7207, 8254, 8311
antibiotics, blasticidin S 2564
Azolla caroliniana 925
books 5383
China 4699
carbon dioxide enrichment 1938, 2159, 2675, 2695
cell culture
cryopreservation 234
protoplasts 907-908, 3396
regeneration 2157, 8267
salinity 1567, 4946
cell cultures
antibiotics 2564
enzymes 906, 2678, 4927-4928, 4939, 6549, 7418, 7927
Golgi apparatus, reviews 7428
growth regulators 5662, 7426
metabolism 2564
diterpenes 890
lipids 906
polyamines 4922
proteins 1567, 5662
mineral nutrition 6154
phytoalexins 7430
regenerative ability 906
somatic embryogenesis 4922
water stress 5662
cell division 230

Rice *cont.*
cell division *cont.*
growth regulators 903
cell membranes 2685
cold resistance 5351
reviews 4945
ion transport, anoxia 7207
plasma membranes
anoxia 7207
composition
lipids 2683, 5665
sterols 4920
enzymes 2683
growth regulators 2683
ion transport 4920
temperature 5665
proton pump, salinity 4946
tonoplast
composition, lipids 5665
temperature 5665
cells
Golgi apparatus 4936
binding proteins 4937
microfilaments 6730
mitochondria 2685
enzymes 3454
metabolism, proteins 6548
chemical composition 4650
boron 231, 2152
cadmium 5636, 5669, 6571
calcium 231, 857, 6570, 8263
carbohydrates 6492
carotenoids 1566, 7440
chloride, determination 5672
chlorophyll 1566, 4156, 7440
copper 224, 888, 1566, 5649
growth regulators 229, 901
iron 231, 857, 888, 1566, 6570, 8251, 8263
lead 888
magnesium 231, 857, 1566, 2137, 6570, 8263
manganese 231, 888, 1566, 6570, 8251
nickel 231, 7344
nitrogen 231, 857, 2136, 3348, 4112, 5649, 8231
organic acids 8786
phenolic compounds 7076
phosphorus 231, 239, 857, 3357, 4921, 5632, 8263
polyamines 3401
porphyrins 1566
potassium 231, 237, 857, 5649, 6570, 8263
proline 4156
proteins, determination 6555
silicon 3357, 6547, 8229
sodium 237, 6570
sulphur 231, 4907
titanium 231
zinc 231, 888, 4907, 6545, 6571
chloroplasts
enzymes 3454
ultrastructure 8249
climate 911
Japan 913
Hokkaido 4944
climatic change
India 1938
Japan 2693, 2695
models 2694
cold resistance 4945, 5665, 7436, 8273
cultivars 3401, 4155, 6568
growth regulators 3401
reviews 5351, 6567
coleoptiles
cell membranes
enzymes 8254
growth regulators 8254
composition
glutelins 8264
prolamins 8264
enzymes 2680-2681
greening 4159
growth 901, 2681
growth regulators 901, 2681
hypoxia 4159
metabolism, polyamines 2681
conferences 5373
continuous cropping 183, 4891, 8275

Rice *cont.*
crop husbandry 2653-2654
India 5618
Sikkim 6477
Japan 7379
models 8278
Nepal 5619
Russia 4888
USA, Florida 7898
Uzbekistan, books 5384
West Africa 7378
crop residues 6264
removal 849
cropping systems 2653, 6478
China
Jiangsu 5621
Zhejiang 5621
India, Uttar Pradesh 8808
Russia 4888
West Africa 7378
cultivars
Bangladesh 217
Brazil 5667
Santa Catarina 4654
Burundi 7434
China 3359, 3362
Fiji 3394, 6557
genotype environment interaction 867, 3360, 4145
Hungary 4895
identification 928
India 862, 1550
Andhra Pradesh 1549
Haryana 6532
Karnataka 8263
Kerala 6498
Madhya Pradesh 7410
Maharashtra 6483, 6515, 6531
Nagaland 5648, 6499
Orissa 6482, 6558
Tamil Nadu 8227
Uttar Pradesh 3360, 3363
West Bengal 3392
Indonesia 863, 3393
Japan 220, 866, 2658, 7409
Hokkaido 4889, 4913
trends 2673
Korea Republic 911, 915
mixtures 5622, 5634, 7407-7408
Nepal 5619
Nigeria 7433
Pakistan 3361
Papua New Guinea 4914
Sierra Leone 7433
USA, Florida 2141
variety classification 2155
Aditya 6535
Anekomochi 2146
Aya 2143
Bili Mukthi 5645
Buli-INIA 1553
CTH3 5645
Cypress 8238
Dian Jing-23 6533
Dian Jing-24 6533
Digu A 869
Don 872
Haginokaori 2148
Hamzu-2 4916
Hanaechizen 2149
Hitomebore 2147
HP32 6534
Hsien-128 870
IET-8116 1551
Janganbyeo 4124
Jinmibyeo 4123
Juan Guang 8239
Khao Tah 872
Kinuhikari 2658
Koshihikari 7412
Lacassine 4121, 4125
NDGR150 1556
NDGR151 1556
Obongbyeo 4122
Oochikara 3367
Petch 872
PR110 4915
Sari 2142
Tewada 872
Texmont 8237
TKM10 5646

Rice *cont.*
cultivars *cont.*
Tokomeki 35 219
Toyosachi 1557
TRC229F41 6537
Tulasi 6536
V18 1554
VL Dhan 221 1555
Weiyou-77 868
Wu Gong-1 1552
Yamauta 2144
Yokaminori 1558
Yuan Jin-11 3366
Yukiminochi 2145
Yukinosei 3368
ZH3 871
cultivation
interrow cultivation 191
methods 848
no-tillage 849, 4103
ploughing 2150
puddling 184
raised beds 7380
straw incorporation 205
cutting 194, 3345
cutting date 840
cutting height 840
damage 3342
deep water rice
books 5381
cell division, growth regulators 903
cutting 194
growth regulators 903
soil pH 194
stems, growth, growth regulators 903
tillers
development 5656
initiation 5656
water, depth 5656
yield components 217
development
models 2154
temperature 7424
disease control, fertilizers 886
diseases
Cochliobolus miyabeanus 886, 6541
Gibberella fujikuroi 4904
Magnaporthe grisea 886
Pseudomonas fuscovaginae 7434
Pyricularia oryzae 3377, 7434, 8246-8247
Rhizoctonia solani 4134
Xanthomonas oryzae pv. *oryzae* 892, 1564
drainage 4891, 8216
drought, growth stages 4149
drought resistance 3400, 5623
cultivars 4149-4151
dry matter accumulation, cultivars 223, 8259
dry matter distribution, cultivars 6531
energy relations 524, 3043
energy requirements 4703
enzymes
acid phosphatase 1568, 4139, 4947
adenosinetriphosphatase 2680, 2683, 3402, 3454, 4920, 4947, 7207, 8252
alkaline phosphatase 4139
amylases 53, 893, 3385, 4151, 4944, 4952, 7431-7432, 8253, 8255, 8311
carboxy-lyases 2681, 3401
catalase 906, 3378, 4926, 6564
catechol oxidase 3404, 4117, 4926, 5650
chitinase 8247
cytochrome-c oxidase 3378
esterases 4928
β-fructofuranosidase 4952, 5652, 7431-7432, 8253
glucosidases 7417
glutamate-ammonia ligase 891, 7419, 7925
glutamate dehydrogenase 227, 3378, 3404
glutamate synthase 4925, 5653
glycosidases 8247
hydro-lyases 5444
hydrolases 6549
IAA oxidase 4926

Rice *cont.*
enzymes *cont.*
inhibitors 53
isomerases 2678, 4952, 8253
nitrate reductase 3378, 5666, 7925
nitrite reductase 5666, 7925
nucleases 4949
oxidoreductases 3378, 4923, 5653, 6560
oxygenases 3377
peptide hydrolases 1574, 2679
peroxidases 892, 906, 3377-3378, 3404, 4939, 5650, 6541, 6560, 6564
phenylalanine ammonia-lyase 4929, 5650, 6541
phosphoric monoester hydrolases 3404, 4949, 8253-8254
phosphotransferases 3823, 4924, 5652, 8253
ribonucleases 4949, 7438
ribulose-bisphosphate carboxylase 2679, 5444
sucrose synthase 893, 5652, 7421, 8253
superoxide dismutase 906, 5654
transferases 4927, 4952, 7418, 7927, 8253
trypsin 2677
urease, inhibitors, hydroquinone 6506
evapotranspiration 6488
cultivars 6565
estimation 7070, 7493
growth stages 6565
measurement 6566
models 2690
explosions 6576
farming systems, Philippines 7389
fertility
light intensity 3390
temperature 3390
fertilizers 2658, 4650, 6493
boron 2382
cattle slurry 1548
composts 6525
copper 2382, 5649, 8276
crop residues 5643
Cyanobacteria 844, 858-860, 8224, 8232, 8234
distillery effluent 4912
farmyard manure 190, 209, 211, 2135, 4904, 5635, 6507, 6516, 6520, 7381, 8224, 8233-8234
application date 6500
sources 6500
filter cake 1545
gypsum, application methods 6519
iron 4118
magnesium 2137, 5637, 7392
manganese 2013, 4118, 7404
manures 6518, 7402
residual effects 6264
nitrogen 21, 186, 198, 204-205, 211-214, 831, 840-844, 854, 859-860, 880, 925, 1541-1542, 1548, 2135, 2310, 2374, 2656, 2661, 2667, 3053, 3342, 3355, 4107, 4115, 4134, 4160, 4890, 4898-4899, 4904, 4909, 4953, 5141, 5626-5628, 5631, 5634-5635, 5639, 5641, 6134, 6140, 6264, 6482, 6495-6499, 6505, 6511-6513, 6518, 6526-6527, 6542, 6574, 7381, 7383, 7386, 7392, 7402-7403, 7912, 8219-8220, 8226-8229, 8232, 8235, 8274
application date 196, 845, 848, 2136, 2655, 3347-3350, 3352-3353, 4111-4112, 4903, 5629-5630, 6500, 6517, 7394, 7397, 8221-8223
application methods 200-201, 846-847, 2663, 4113, 6485, 7397, 8223
foliar application 199, 6494
requirements 182
residual effects 1829, 4542, 7323, 8240
reviews 7393

Rice *cont.*
fertilizers *cont.*
nitrogen *cont.*
sources 202, 846, 2136, 2663, 3350-3353, 4111, 4119, 4542, 4902-4903, 5629, 5640, 6485, 6500-6504, 6529, 7395-7397, 8224
use efficiency 196-197, 1543, 2662-2663, 3341, 3346, 3349, 3353, 4903, 4910, 6487, 6503-6504, 6506, 7395, 8223, 8231
NPK fertilizers 205, 857, 884, 1545, 1548, 2659, 2669, 4116, 6514-6516, 6525, 7053, 7056, 7382, 8227
organic fertilizers 211, 880
paper mill sludge 2669
phosphorus 21, 190, 204-205, 855, 2135, 2665, 2667, 3354-3355, 4115, 4651, 4905, 5112, 5626, 5632, 5634-5635, 5641, 6479, 6507-6508, 6511-6512, 6518, 6542, 6628, 7392, 7399, 7402-7403, 8226, 8228-8229, 8274, 8276
application date 848, 6517, 8754
requirements 8754
residual effects 4906, 5849
sources 192, 203, 2664, 3357, 4114, 4618, 4652-4653, 4906, 6509, 8753
use efficiency 1296, 4114, 5849
pig manure 5639
potassium 21, 186, 204-205, 850-851, 855, 2135, 2666-2667, 3355, 5626, 5633-5635, 6510, 6513, 6518, 7392, 7400-7401, 7403, 8225-8226, 8228-8229, 8276
application date 2655, 6517
residual effects 849
rabbit droppings 6529
residual effects 7061
rice straw 8224
residual effects 6264
silicon 886, 2141, 6546
sources 3357
slurries 8233
straw 880
sulphur 21, 206, 208, 850, 855, 1308, 2382, 4907, 5626, 6523
application date 852-853, 6520
application methods 6519
residual effects 853-854, 1307
reviews 5638
sources 207, 853-854, 2138, 6520-6522
trace elements 21
foliar application 8230
urine 5639
zinc 208, 1310, 1546-1547, 1914, 2135, 2382, 3356, 4117, 4907-4908, 5626, 5635, 6512, 6545, 7387-7388, 7403, 8226, 8276
application date 210
application methods 2139, 6524
foliar application 210
sources 209-210, 226, 7405
field experimentation
experimental design 922
experimental plots 922
plot size 922
flooding 853, 916-917, 3339, 3349, 3387, 4932, 6489, 6494, 8271
flooding tolerance, cultivars 5664
flowering
induction 235
light intensity 3390
photoperiod 235
temperature 235, 3390
flowering date 235, 1580
flowers, anthers, morphology 6556
frost resistance 7940
fungicides
carbendazim 916
metalaxyl 195
thiram 916
gene expression
drought resistance 3400
growth regulators 1569, 3400

Rice *cont.*
gene expression *cont.*
heat shock 3400
salinity 7926
genotype environment interaction 5620
grain
composition
amino acids 227
amylose 3354, 4897, 4913, 5637, 7436
arsenic 8277
boron 5627
carbohydrates 3354
copper 5627, 6574
elements 8263
glutelins 2155
heavy metals 5660
iron 6574
manganese 6574
nitrogen 925, 4903, 5627, 5639, 6516, 6574, 7390, 7399, 7416
organic acids 8786
phosphorus 6516, 6574, 7399, 7405
potassium 2666, 6516, 6574, 7399
prolamins 2155
proteins 184, 227, 232, 905, 2137, 3344, 4897, 4913, 5637, 5639, 6481, 7390
silicon 8229
starch 2137, 3354
sugars 3354, 6481
sulphur 208, 5627
zinc 208, 6574
cooking quality, cultivars 8235
cracking 8269
cultivars 3364
development
enzymes 227
growth regulators 193
metabolism 227
discoloration 6542, 6558
endosperm, composition, proteins 5661
enzyme inhibitors 7420
enzymes 227, 4944, 5652-5653, 7417, 7421
filling 4135, 6552
temperature 4944, 8272
grading 2684
maturation 5653
metabolism
amino acids 227
carbohydrates 5652
proteins 227
moisture content 929, 4901, 6491
morphology 2684, 6556
cultivars 6557
quality 3359, 4135, 4913, 8213, 8269
cooking quality 184, 845, 6481
cultivars 7411
cultivars 3362
fertilizers 4890
harvesting 6491
harvesting date 4889
herbicides 4897
Japan 2672, 4889
milling quality 2684, 3344, 4901, 6481, 6491
plant density 6481
reviews 2742
soil amendments 4890
temperature 2693, 4890, 7436
ripening 6552
shape, cultivars 3392-3394
size 2684
cultivars 3392-3394
storage
containers 3410
moisture content 3410
pests 3410
temperature 3410
green manures 21, 884, 5639
Adhatoda vasica 6525
Aeschynomene afraspera 213, 4119, 4911, 6527, 7406
Artemisia vulgaris 6525
Azolla 211, 6526, 8232, 8234
Azolla pinnata 4909, 6505
Corchorus olitorius 212

Rice *cont.*
green manures *cont.*
Crotalaria juncea 211, 4910, 8224
Cyamopsis tetragonoloba 5640
Eupatorium adenophorum 880
Gliricidia sepium 3358, 4910
Ipomoea carnea 4910
Lantana camara 880
Sapium insigne 6525
Sesbania 5640, 6526
Sesbania aculeata 211-212, 856, 2140, 2669, 2894, 5641, 6528
Sesbania cannabina 4910, 5642, 6525
Sesbania rostrata 212-213, 2894, 4119, 4911, 5141, 6527, 7406, 8231
Sesbania speciosa 857, 5141
Sri Lanka 2668
Vigna radiata 6140, 8224
Vigna unguiculata 6528
growth
cultivars 6543
flooding 3387
growth rate, cultivars 8259
mineral nutrition 7415
models 2154, 2697, 7441
growth analysis 7416, 7423
growth period 867, 4149, 4893
cultivars 5622
growth regulators
abscisic acid 900-901, 921, 1569, 2573, 2683, 3377, 3391, 3400-3401, 4938, 4943, 5662, 6551, 6563, 8265, 8273
ACC 2153, 3377, 3401
adenosine 6174
aminooxyacetic acid 3377
ancymidol 8782
auxins 3391
AVG 3391
Azoluron 4896
BAS111W 8782
benzimidazoles 4896
benzyladenine 900, 2158, 3391, 7429, 7431
brassinolide 900, 5658
brassinosteroids 229, 3389, 3829, 5658, 7426
chlormequat 4109
cimectacarb 8782
cytokinins 4896, 4943, 5659, 6563
Cytozyme 6490
2,4-D 2158, 7429, 7432, 8261
epibrassinolide 3391, 5658
ethephon 1539, 4109, 8261
ethylene 900-901, 2153, 2681, 3377, 3401, 4919, 4932, 5650
fusicoccin 2682
gibberellins 900-901, 903, 2683, 3385, 3388, 3391, 4108, 4129, 4892, 4933, 8185, 8211, 8217, 8260-8261, 8311
growth inhibitors 4931
growth stimulators 902
IAA 900, 3391, 7432, 8220, 8252, 8254
IBA 7432
inabenfide 193, 838, 2660
isopentenyladenine 4943, 7431
jasmonic acid 1570, 6553
kinetin 2686, 3389, 7431
maleic hydrazide 8261
mepiquat 8782
monocarboxylic acids 7427
NAA 2158, 2686, 3389, 7432
paclobutrazol 198, 1540, 8782
polyamines 2153, 2681
prohexadione 8782
putrescine 921
tetcyclacis 8782
TIBA 3391
triacontanol 6174, 6490
triapenthenol 8782
uniconazole 4898-4899
zeatin 4938, 4943
zeatin riboside 4943, 8265
growth stages, models 7423
harvest index, cultivars 223
harvesting
mechanization 6491
stripping 839

Rice *cont.*
harvesting *cont.*
whole crop harvesting 4110
harvesting date 2134, 4889, 4900-4901
harvesting losses 3049, 4110, 8218
measurement 7442
heat shock 3400
herbicides
adjuvants 875
anilofos 1544, 8242, 8245
atrazine 7435
bensulfuron 3374, 4127
bentazone 6538, 8243
bromoxynil 4132
butachlor 875, 877-879, 897, 1544, 3815, 4126, 4128, 6539, 7413-7414, 8241-8242, 8245
carriers 875
cinmethylin 4127
cinosulfuron 4127
2,4-D 881, 1544, 3371, 3373-3374, 3815, 4127-4128, 5647, 6539, 7386, 8245
damage 4131-4132
dinitramine 4128
EPTC 3373-3374
fenclorim 4127
fenoxaprop 3374, 4127
fluchloralin 1544, 5647
glyphosate 3815
isoproturon 881, 4897
isouron 5651
linuron 876
metoxuron 881
molinate 875, 3374, 4127
nitralin 876
oxadiazon 875, 881, 3369, 3374, 4126, 4128, 6538, 8243
oxyfluorfen 878, 881, 6539, 8242
paraquat 4128, 6550
pendimethalin 875, 877, 881, 1544, 4128, 6538-6539, 8242-8243
piperophos 6538, 8242
pretilachlor 876, 881, 3373-3374, 4127, 6538, 8243
propanil 879, 3374, 4128-4129, 4131, 7386
pyrazosulfuron 876, 3374
pyridine herbicides 1341
quinclorac 3374, 4127
thiobencarb 881, 1544, 3369, 3374, 5647, 6538-6539, 7385, 7413-7414, 8241-8244
tolerance 4131-4132
toxicity 897
triclopyr 4131-4132
tridiphane 8241
hypoxia 4951
India, Uttar Pradesh, books 5382
inoculation
mycorrhizal fungi 926
Pseudomonas 926
insecticides
carbofuran 1541, 6496, 8220, 8248
DDT 365, 566
diazinon 1541
endosulfan 1541
HCH 365, 8252
lindane 8252
phorate 8220, 8248
intercropping
Cajanus cajan 5112
cassava 2310, 6134
groundnuts 6134, 6479
Macrotyloma uniflorum 879
maize 1296, 6134
sesame 8636
Sesbania aculeata 6480, 6528
Sesbania rostrata 6480
Vigna mungo 5867, 8738
Vigna radiata 879, 8738
Vigna unguiculata 353, 879, 6528
irradiation 6576
ultraviolet radiation 2675, 3409
cultivars 3408
irrigation 837, 3043, 5625, 6488-6489, 6510, 7389-7390, 8215, 8219
drainage water 3382
flood irrigation 192
growth stages 3342-3343, 7386
requirements 7070
Rice *cont.*
irrigation *cont.*
saline water 7387-7388
sprinkler irrigation 4895
water quality 3382, 8214
irrigation scheduling 5625
models 837
Japan 7379
latitude 1580
leaf angle
fertilizers 4899
growth regulators 4899
leaf area 196
cultivars 8259
temperature 8272
leaf area index 2674
leaf conductance, water stress 6563
leaf water potential 4150
water stress 6563
leaves
canopy 2674
development 3399
microclimate 918
temperature 4154, 6559
thermal radiation 6559
colour 8249
composition
calcium 4138
carbohydrates 924
carotenoids 8249
chlorophyll 1542, 1572, 5668, 6498, 6543, 6561, 8249
measurement 3853
magnesium, analysis 5671
manganese 4138
nitrogen 196, 217, 842, 898, 1572, 3399, 4899, 6543, 6561, 7416, 8249
analysis 5671
estimation 6577
phenols 4117
phosphorus 1572, 7400
polyamines 2153
potassium 1572, 7400
analysis 5671
proteins 4942, 6561
putrescine 2153
silicon 2141, 4136, 6546
waxes, growth stages 4141
zinc 4138
enzymes 891-892, 2679, 3377, 4923, 4925, 5650, 5654, 6541, 6560
flag leaf
photosynthesis, cultivars 6544
removal 3344
senescence 5654
growth 898
growth regulators 1570, 3388
metabolic regulators 1570
metabolism
enzymes 2679
ethylene 4919, 5650
growth regulators 2153
haemoglobin 2679
nitrogen 7925
organic acids 4923
phenolic compounds 6541
polyamines 2676, 4919
removal 4135
senescence 1570, 2679, 5654, 5659, 8258
enzymes 7419
reviews 2676
stomata 196
stomatal movement, antitranspirants 6550
stomatal resistance 196, 4150, 4943, 8249
temperature 918
water content 4150
light 4140
light intensity 3390, 4148, 4941, 6540, 6560-6561
lodging 193, 233, 916, 3345, 4109
growth regulators 1540, 4898
metabolic regulators, calcium 1570, 2676
metabolism
amino acids 7940
ascorbic acid 6560
diterpenes 890
enzymes 3377
Rice *cont.*
metabolism *cont.*
glutathione 6560
growth regulators 2153, 5658, 8185, 8252, 8273
herbicides 5651
insecticides 8252
nitrogen 7925
nucleic acids 7438
organic acids 4923
polyamines 2676, 2681, 3401, 4922
potassium 3062
proline 7940
proteins 2573, 2677, 5653, 5662, 6548
starch 3823
mineral nutrition 4650
aluminium
tolerance 8250
toxicity, reviews 244
arsenic 4838
toxicity 7415
boron, toxicity 2152
cadmium 4919, 5636
toxicity 4920
calcium 238, 4136, 5652
chloride 2180
copper 1565, 3382
toxicity 224, 3383
fluorine 4921
iron
sources 6154
toxicity 5650, 8251, 8276
lead, toxicity 888
magnesium 238, 4838
nickel, toxicity 4138, 4920, 7344
nitrogen 21, 196, 225, 238, 842, 3378, 3407, 5444, 6516, 6540, 7416
sources 4119
phosphorus 21, 238, 889, 2679, 4921, 6516, 6628
potassium 21, 3062, 6516
deficiency 3381
silicon 2141, 4136, 6546-6547
reviews 244
sodium 2679
sulphur 21, 208
reviews 5638
trace elements 21
zinc 208, 1310, 1546, 4117, 4137, 4908, 6545
deficiency 3384, 6512
sources 226
mineral uptake
arsenic 7415
boron 2152
cadmium 6571
calcium 225, 857, 4136, 7053
copper 224, 226, 888, 1565
heavy metals 5660
iron 226, 857, 888, 4118
lead 888
magnesium 857, 5649, 7053
manganese 226, 888, 4118
models 3380
nitrogen 197, 200-201, 213, 225, 539, 843, 857, 1543-1544, 1548, 2664, 3347-3349, 3355, 3369, 3380, 4118, 4902-4903, 5141, 5631, 5639, 5643, 6132, 6140, 6502, 6506, 6513, 6540, 7323, 7416, 7423, 8222
phosphorus 225, 236, 539, 857, 889, 1296, 1544, 1548, 2664, 3355, 3357, 3369, 3380, 4118, 5849, 6132, 6140, 6502, 7402
potassium 225, 539, 857, 1544, 1548, 2664, 2666, 3062, 3355, 3369, 3380, 3402, 3405, 4118, 6132, 6502, 6513, 7207
silicon 3357, 4136, 8229
reviews 244
sodium 920, 3402, 3405
sulphur 208, 4907, 6519
zinc 208-210, 226, 888, 1547, 2139, 3356, 4907, 6571
models 5383
morphology, models 2154
mulches
Erythrina 8210

Rice *cont.*
mulches *cont.*
Inga edulis 8210
Leucaena leucocephala 8210
multiple cropping 6132, 7052, 7056
Cicer arietinum 513
cotton 513
groundnuts 6134
Linum usitatissimum 513
maize 6134
peas 513
rice 183
sesame 7053
Sinapis alba 7053
soyabeans 3043
sunflowers 513
Vigna mungo 513, 7053
Vigna radiata 5849, 6140, 7053, 8240
Vigna unguiculata 7053
wheat 513, 1538, 6140, 7053
mycorrhizas 238-239, 926, 3358
nitrification inhibitors 847, 2136, 2663, 3351, 5631, 7398
dicyandiamide 6506
Oryza perennis, allelopathy 7439
panicles
composition, nitrogen 4899
development 7425
submergence 2688
temperature 7424
phloem 4142
shading 1571
water stress 8270
xylem 4142
pests
Apodemus agrarius 221
Cnaphalocrocis medinalis 885
Gerris nitida 883
Hoplolaimus seinhorsti 7083
Horridipanura 883
Nilaparvata lugens 4133
Orseolia oryzae 1549
Parnara guttatus 4918
Rattus rattus 1563
Scirpophaga incertulas 884
Tibraca limbativentris 222
phenology 5393
photoperiod 235, 4942
photorespiration, cultivars 3379
photosynthesis 5336, 8249
cultivars 223, 3379, 6543-6544
diseases 8246
electron transfer 5444
enzymes 6560
growth regulators 6553
light 6561
mineral nutrition 5444, 7415
models 887
net assimilation rate, cultivars 8259
photoinhibition 6560
pollution 6572
temperature 223
phytoalexins 4935, 7430
phytochrome 2156
plant competition
cultivars 873
intraspecific competition, models 1561
light 6540
mineral uptake 1544
models 3372
plant height 873
plant nutrition 6540
weeds 873-874, 1559, 3370, 3372, 3375-3376, 4917, 6540
models 1562, 4130
reviews 785
plant density 186, 831-832, 2655, 4905, 5623, 6481, 7056, 7382, 7425
cultivars 4107
plant height 3345, 4109, 5657, 6547, 7423, 8258
growth regulators 4129
pollen
composition, growth regulators 229
development 230, 904
pollution
arsenic 4838, 8277
cadmium 4919, 5636, 5669, 6571
chromium 7440

Rice *cont.*
pollution *cont.*
heavy metals 5660
sulphides 6572
precipitation 912, 6558, 6562
protoplasts 3396, 8267
cultivars 1575
culture media 4940
oxygen 907
regeneration 907-908, 3397, 4144
radiation, solar radiation 912
ratooning 840, 6492, 7391
relative humidity 920, 6558
relay cropping
cassava 6134
Cicer arietinum 513
cotton 513
Linum usitatissimum 513
peas 513
sunflowers 513
Vigna mungo 513
wheat 513
remote sensing 568, 7957
identification 1342, 2699, 3859
thermal radiation 2698
respiration 5336
cultivars 223
temperature 223
rhizosphere 3347
root caps, enzymes 1568
root exudates 5670
siderophores 6154
root shoot ratio 3403
temperature 8272
root systems 190, 3347, 6552, 8065
roots
aerenchyma 4932
bacteria, *Xanthobacter* 2696
cell membranes, enzymes 3402
cells, microfilaments 6730
composition
arsenic 7415
calcium 225, 7415
copper 7415
elements 238
iron 224, 7415
magnesium 7415
manganese 224, 7415
molybdenum 7415
nitrogen 225, 1578, 7388, 7416
nucleic acids 7438
phosphorus 225, 7388, 7415
potassium 225, 7388, 7415
proteins 1578, 6569, 6730
sodium 7415
sulphur 208
zinc 208, 7415
depth 5623
diameter 5623
distribution 3343, 5644
enzymes 3378, 6564
exudates, growth regulators 5659
flooding 4932
growth 3382, 3389, 4891, 5623
fertilizers 2666
herbicides 5651
growth regulators 3389, 4932, 7427, 8220
inoculation, *Alcaligenes faecalis* 5670
length 3343
mineral nutrition 224
metabolism
nucleic acids 7438
proteins 6569
morphology 3395
respiration 3378
temperature 2687
tropisms
gravitropism 8065
cultivars 4140
uptake, insecticides 365
rotations 539
barley 182, 4891
cotton 7061
fallow 2374, 8231
groundnuts 2374
jute 1829, 4542
Lablab purpureus 2374
Lens culinaris 212
Macrotyloma uniflorum 2374
maize 5621

Rice *cont.*
rotations *cont.*
sorghum 1543, 2374
soyabeans 182, 1543, 4891
Vigna radiata 7061
Vigna unguiculata 849, 2374
wheat 1538, 5621, 5633, 5640, 6264
row spacing 7381
salinity 237, 920-921, 1567, 1577, 1579, 2152, 2160-2161, 2682, 2692, 3402, 3404, 4156, 4926, 4947, 4949, 6569, 7387-7388, 7401, 7437-7438, 7926, 8274
cultivars 3403
salt tolerance 920, 1577-1578, 3405, 4948, 5667
cultivars 237, 2160-2161, 3406, 4156-4157, 4926, 5666, 7438
reviews 4946
seed certification, Colombia 3051
seed development 4934, 6551
enzymes 227
metabolism 227
seed dormancy
harvesting date 2134
seed treatment 3386
storage 2134
seed germination 916, 1542, 1571, 4975, 6561
allelopathins 6554
allelopathy 693, 923, 1089, 4950, 5655
anoxia 4952, 8311
antibiotics 2564
cultivars 228
desiccation 6551
enzymes 2678, 3385, 4926, 4929, 4947, 4949, 4952, 8253
equipment 4163
flooding 8256
growth regulators 3385, 4108
harvesting date 2134
herbicides 897
insecticides 566
light 8257
metabolism, starch 4952
osmotic pressure 8257
pollution 7440
respiration 8256
salinity 4926, 4949, 7437, 8257
seed quality 185
seed treatment 185, 930, 3386, 4892, 7422, 7437
storage 2134, 3410, 3856, 4955, 7422
temperature 8257
cultivars 4155
seed inoculation
Alcaligenes faecalis 5670
Pseudomonas, reviews 3090
seed morphology, cultivars 3392-3394, 6557
seed production 6188
Colombia 3051
growth regulators 4108
seed quality 185, 916, 3338, 6188
growth regulators 6490
seed set 230, 1571
growth regulators 4108, 8261
seed shattering, cultivars 228
seed size, cultivars 3392-3394
seed testing 4975, 6187-6188
seed treatment
accelerated aging 3856
acidification 3386
coating 2139, 4104
dimethyl sulphoxide 4143
ferrous sulfate 7437
fertilizers 6524
fungicides 195, 916
growth regulators 2682, 3389, 4892, 4896, 8211
hot water treatment 930
osmotic pretreatment 4892
soaking/drying 7422
temperature 185
seedling emergence 185
seed treatment 4104, 4892
soil water content 7905
sowing depth 7905
seedlings
accumulation, abscisic acid 2573

Rice *cont.*
seedlings *cont.*
composition
nucleic acids 7438
phytochrome 2156
enzymes 4924, 4949, 7438, 8252-8253, 8255
establishment 189, 8216
green manures 213
reviews 4106
growth 185, 898, 4951
allelopathins 6554
allelopathy 693, 1089, 4950
cultivars 6543
growth regulators 900, 902, 2660, 3391, 4933, 8211, 8217, 8273
hypoxia 4951
inoculation
mycorrhizal fungi 926
Pseudomonas 926
leaf area, cultivars 6543
metabolism
herbicides 5651
nucleic acids 7438
proteins 2573, 4951
photosynthesis, cultivars 6543
production 188, 195
reviews 4106
salinity 4156, 4949
vigour 8211, 8255
water stress 2573
seeds
accelerated aging 4139
anoxia 4952, 8311
composition
amino acids 227
copper 6574
elements 1327
iron 6574
manganese 6574
nitrogen 1542, 6497, 6574
oils 1328
phosphorus 6574
potassium 6574
proteins 227, 232, 1542, 1574, 6104
zinc 6574
cracking, cultivars 3364
density 185
desiccation 6551
embryos
accumulation, abscisic acid 2573
composition, proteins 1573, 4934
enzymes 893, 4139, 4926
gene expression 893
pH 3386
polyembryony 8262
endosperm
composition, proteins 5661
enzymes 4926
enzyme inhibitors 7420
enzymes 227, 1574, 4952, 5652, 7417, 8311
gene expression 5443
growth regulators 6551, 8311
imbibition 4104
metabolism
amino acids 227
carbohydrates 5652
proteins 227
starch 4952
moisture content, determination 4161
morphology 6556
storage 2134, 4139, 6578, 7422
containers 4955
growth regulators 6490
moisture content 4955
ultrastructure 1328
viability 2134, 4104, 4139, 6551
seed treatment 930
storage 3856
vigour 185, 1542, 1571, 4104, 4955
shading 914, 1571, 3399
shoots
accumulation
chloride 2160
sodium 2160
composition
arsenic 7415
calcium 225, 7415
copper 7415

Rice *cont.*
shoots *cont.*
composition *cont.*
elements 238
growth regulators 921
iron 224, 7415
magnesium 7415
manganese 224, 7415
molybdenum 7415
nitrogen 225, 1578, 6497
nucleic acids 7438
phosphorus 225, 7415
potassium 225, 7415
proteins 1578
sodium 7415
sulphur 208
zinc 208, 7415
enzymes 4920
growth, herbicides 5651
growth regulators 8260
metabolism, nucleic acids 7438
site factors 7433
soil
arsenic 8277
leaching 7404
magnesium 2137, 5637
nitrogen 841
sodic soils 4921, 6570
trace elements 8230
zinc 1546, 1914, 4908
soil amendments
basic slag 7404
coir waste 192
filter cake 192, 4114
gypsum 206-207, 2138, 7387-7388, 8233
hydrochloric acid 8274
lime 205, 2152, 5636, 7392, 7404
liming materials 215
phosphogypsum 207
pyrites 3354, 4114
rice husks 5644, 6495
rice straw 214
silicate slags 6530
slag 6495
sulfuric acid 8274
topsoil 4890
soil density 5644
soil inoculation
Acaulospora 239
Anabaena 6573-6574
Anabaena azollae 6573
Aulosira 6574
Azolla 925
Azolla caroliniana 6512
Cyanobacteria 844, 858, 925, 1541, 2669, 4115, 4160, 4953
Glomus 239
Glomus intraradix 3358
mycorrhizal fungi 238
Nostoc 6573-6574
Plectonema 6574
Pseudomonas, reviews 3090
Tolypothrix 6574
Tolypothrix tenuis 6575
Xanthobacter 2696
soil pH 194, 922, 3407, 7404
soil types 236, 3343, 7344, 7399
soil water 236
soil water balance, China, Yunnan 4146
soil water content 236, 7905
soil water regimes 6489
solar radiation 914, 4147, 6558-6559, 7425
use efficiency 915
sowing
comparisons, transplanting 834, 882, 2658, 3339, 3373, 4105, 4894, 6485, 6542
mechanization, Malaysia 836
sowing date 1549, 1580, 6482, 7056, 8213, 8235
sowing depth 7905, 8212
cultivars 4105
sowing methods 835, 4128, 7384, 7407
broadcasting 191, 7385, 8738
direct sowing 189, 7385
drilling 191
sowing rates 831, 833, 2656, 3339, 4128, 4893

Rice *cont.*
spacing 186, 190, 198, 884, 2657, 2659, 3341, 6542
cultivars 4107
spikelets
development, stress, books 3109
enzymes 5653
metabolism, proteins 5653
stems
composition, nitrogen 7416
growth, growth regulators 903
internodes, growth regulators 3388
mechanical properties 233
phloem 4142
water relations 4943
xylem 4142
sterility
growth regulators 8261
male sterility 910
photoperiod 4942
temperature 919
precipitation 912
solar radiation 912
wind 912
stomatal movement 894
stomatal resistance 895
temperature 4152-4153
straw
composition
elements 7404
nitrogen 4903, 7399
phosphorus 7399, 7405
potassium 7399
silicon 2141
trace elements 7404
straw burning 6264
strip cropping 7380
submergence 901, 917, 3388
cultivars 2689, 6537
duration 2688
temperature 223, 235, 914, 919, 2159, 2693, 2695, 3390, 4152-4154, 4890, 5665, 6558-6559, 7424-7425, 7434, 8273
cultivars 4105
growth stages 4944, 8272
heat sums 2691
models 2694
tillering 2136, 4930
fertilizers 4112
seedling age 187
temperature 8272
tillers
development 187, 899, 5656
growth 899
submergence 917
initiation 5656
number 5657, 5663
removal 3339
yield components 6486, 8236
tissue culture 909, 1576
cultivars 1575
culture media 3398, 7429, 8265-8266, 8268
desiccation 8268
drought resistance 3400
enzymes 3404, 4939, 7431-7432
growth regulators 2158, 2686, 3400, 4938, 7429, 7431-7432, 8265
heat shock 3400
male sterility 910
proline 8265
regeneration 2157-2158, 3398, 4144, 4938, 8265, 8267
roots 2687
salinity 1577, 3404
seeds 4143, 7429, 8265
topography, slope 7433
translocation
carbohydrates 2151
chloride 2161
copper 1565
growth regulators 5658
herbicides 5651
iron 224
manganese 224
nitrogen 3348, 6511, 6553, 7323
phosphorus 6511, 6553
photosynthates 7435
sodium 920, 2161
source sink relations 4135

Rice *cont.*
transpiration 894
antitranspirants 6550
measurement 896
salinity 920
water stress 8270
transplanting 842
comparisons, direct sowing 834, 882, 2658, 3339, 3373, 4105, 4894, 6485, 6542
date 884, 911, 2658, 3340, 4147, 4154, 5624, 6483-6484, 7381, 7383, 7391, 7411
reviews 4106
methods 188, 832, 834, 3341, 7381
no-tillage 4103
seedling age 187, 831, 834, 2657, 3340, 6484, 6542, 7381, 7383
tillers 3339, 6486
tropisms, gravitropism 3391
urease inhibitors 8223
water, depth 5656, 6487
water balance 7400
water management 192, 3342-3343, 6488, 6494, 6510, 7412, 8215
water relations 3403
water requirements 7070
water stress 2573, 2691, 3400, 4150, 4943, 5623, 5662-5663, 7435, 8270
growth regulators 6563
water transport 895
water uptake 894-895, 3344
water use 5625
water use efficiency 196, 5625
waterlogging 5462, 6564
cultivars 6537
weather, models 927
weed control 3370
burning 4126
cultivation 191, 3369, 3815, 6538, 7413, 8240
cultural control 879-880, 882, 2150, 3373, 4126, 4128
herbicides 875-876, 878-879, 881, 1544, 3369, 3371, 3373-3374, 3815, 4126-4129, 5647, 6538-6539, 7385-7386, 7413-7414, 8240-8245
integrated control 3815
manual weed control 873, 877-879, 1544, 1560, 2150, 3369, 3371, 3815, 4126, 5647, 6538-6539, 7385-7386, 7413, 8240-8245
mechanical control 879
methods 5648
physical control 1560
weeds 1559
Cyperus difformis 875-876, 3372
Cyperus iria 8244
Echinochloa colonum 875, 6540, 8244
Echinochloa crus-galli 875-876, 3374-3376, 4130, 8242
Eleocharis tuberosum 876
Eupatorium 3815
grasses 3374
Imperata cylindrica 3815
Ischaemum rugosum 3374, 8242
Juncellus serotinus 876
Lantana camara 3815
Leptochloa rugosum 3374
Marsilea minuta 875
Paspalum distichum 4917
red rice 1561
Rottboellia cochinchinensis 6540
Sagittaria pygmea 876
Sagittaria sagittifolia 876
Scirpus triqueter 876
Trianthema portulacastrum 8244
wind 912, 918
winter hardiness 7940
xylem, composition, growth regulators 4943
yield components 867, 1549, 2670, 4142, 5620, 6486, 8236
cultivars 216-217, 3363, 4120, 7408
growth regulators 1539
Japan 2672
multivariate analysis 218
temperature 2671

Rice *cont.*
yield correlations 865, 2671, 3365, 3406, 5663, 7425, 8215, 8248, 8271
cultivars 216
leaf area index 2674
yield forecasting 2743
Japan 927
models 912, 927, 929, 2697, 3864, 4162, 4954
remote sensing 3858
USA 927
yields
climate 2743
Japan 2670-2671
stability 5620
cultivars 861, 864, 866
India 7410
trends
India 3803
Japan 7412
Ricinus communis
cell membranes
composition, proteins 3816
oligosaccharides 5245
chemical composition, proteins 4535
enzymes
catalase 5243
hydro-lyases 8634, 8774
isocitrate lyase 7783
isomerases 8634
lyases 2972, 8634
methyltransferases 5244
nitrate reductase 442, 6048
phosphoenolpyruvate carboxylase 2971
phosphotransferases 1203, 8634-8635
sucrose synthase 8578, 8634
transferases 443
fertilizers
nitrogen 4545, 6047, 7782
sources 7449
phosphorus 4545, 7782
potassium 4545
gene expression, enzymes 1203
green manures, *Canavalia ensiformis* 1202
growth regulators
benzyladenine 7784
gibberellins 7784
NAA 7784
herbicides
benzoic acid 6920
glyphosate 6921
phosphonic acids 6921
sulfonic acids 6921
trifluralin 1944
intercropping
Canavalia ensiformis 1202
Cyamopsis tetragonoloba 8736
groundnuts 5019
Macrotyloma uniflorum 8736
maize 1202
Phaseolus vulgaris 1202
soyabeans 8745
Vigna mungo 8745
Vigna radiata 6047
Vigna unguiculata 8736, 8745
irrigation 8745
leaves
composition
chlorophyll 442
herbicide residues 1944
proline 442
enzymes 442, 2972
light intensity 1204
metabolism
carbohydrates 7538
lectins 7538
lipids 5242
nucleotides 8634
sucrose 8634
sugars 8578, 8634
mineral nutrition
calcium 442
magnesium 442
nitrogen 442, 6048, 6922
phosphorus 442
potassium 442, 6048
mineral uptake
calcium 442
cations 6922

Ricinus communis *cont.*
mineral uptake *cont.*
chloride 6922
magnesium 442
nitrogen 442, 6922
phosphorus 442
potassium 442
trace elements 442
pests, nematodes 5285
phloem
enzymes 8634
metabolism 8634
photosynthesis, relative humidity 1204
relative humidity 1204
roots
enzymes 2972, 6048
growth 3729
seed development, enzymes 1203, 2971
seed germination
enzymes 1203, 2971
seed aging 8632
seed treatment, accelerated aging 8632
seedlings
cotyledons 8578
composition, proteins 4535
enzymes 5243, 8578
growth, seed aging 8632
seeds
composition, oils 8633
cotyledons
composition, proteins 4535
mitochondria, enzymes 8774
endosperm
cell membranes 5245
enzymes 443, 2971-2972, 5244, 7783
metabolism, lipids 5242, 5244
enzymes 1203
metabolism, fatty acids 6049
vigour 8632
shoots, morphology 4547
soil water content 4545
sowing date 7907
spacing 8633
stems, enzymes 2972
stomatal resistance, relative humidity 1204
tissue culture
culture media 7784
growth regulators 7784
regeneration 7784
translocation
amino acids 4546, 6922
calcium 6922
herbicides 6920-6921
magnesium 6922
nitrogen 6048, 6922
phloem loading 1835
potassium 6922
sodium 6922
sucrose 1835
transpiration 1204
water use 7907
water use efficiency 7907
Romania
barley, cultivars 3233
Cannabis sativa, cultivars 437
drought 8791
irrigation 8791
land use, reclaimed land 573
maize, cultivars 147, 3282
potatoes, cultivars 7720
rye, cultivars 7484
sunflowers, cultivars 452, 3741
swedes, cultivars 7706
triticale, cultivars 96, 7484
wheat, cultivars 14, 7161, 7484
Root crops
conferences 5372
evapotranspiration 6179
fertilizers
NPK fertilizers 8752
requirements 8752
harvesting
damage 3698
machinery 3698
production, tropics, books 1363
rotations 5364
seed tubers, storage 5217
Root meristems, growth, models 4664
Root pressure, reviews 6167

Roots
anoxia, reviews 3083
books 1961
development
books 7113
water stress
models 3072
reviews 3072
growth
books 7113
growth regulators, reviews 4668
models 7930
reviews 3834, 6155
soil fauna 4673
soil physical properties 1335
soil temperature, reviews 3081
techniques 3851
length, reviews 3828
metabolism, reviews 3083
mineral uptake, reviews 6155
morphology
models 5346
reviews 3834
Roselle (*see Hibiscus sabdariffa*)
Rotations (*see also* Farming systems)
barley 2, 97, 126, 182, 263, 463, 510, 512, 1457, 1933, 2072, 2178, 2428, 2533, 2536, 2728, 2841, 2902, 3124, 3808, 4639, 4816, 4891, 5498, 6143, 6356, 6358, 7062, 7117, 7245, 7988, 8113, 8304, 8798
Brassica campestris 463
Brassica juncea 3805, 7051
buckwheat 7233
Cajanus cajan 6128, 8480
cereals 5364
Cicer arietinum 257, 5297, 6137, 6610
cotton 1167, 1176, 4516-4517, 6582, 7061, 7744
Eleusine coracana 5705
energy relations 5364
fallow 512, 2374, 4516
fodder beet 2728
grain legumes 5364
groundnuts 539, 1115, 2374, 4283, 5025, 6128
jute 1829, 4542
Lablab purpureus 2374, 6610
legumes 5910, 7912
Lens culinaris 212, 3887, 4293, 4710, 5705, 6137
Linum usitatissimum 3, 521, 5324, 6816
Lupinus 3
Lupinus albus 5897, 6816, 7988, 8113, 8156
Lupinus angustifolius 2072, 3604-3605, 5897, 8113
Lupinus cosentinii 5897
Lupinus luteus 5426, 8113
Macrotyloma uniflorum 2374
maize 18, 125-126, 263, 510-511, 539, 575, 753, 767, 1115, 1304, 1611, 1908, 1987, 2085-2086, 2100, 2178, 3459, 3804, 3808, 4039, 4044, 4060, 4468, 4645, 5324, 5366-5367, 5574, 5621, 5935, 5962, 6129-6130, 6143, 6358, 6417, 7482, 8156-8157, 8304, 8798
Melilotus officinalis 4645
models 510
Mongolia 512
oats 84, 263, 539, 1304, 1457, 1910, 1933, 3604, 3887, 3981, 4639, 4645, 4816, 6129, 7482, 7988, 7998, 8113, 8304
peas 511, 1402, 1910, 1971, 4293, 4468, 5162, 5324, 5705, 6137, 6234, 7988, 8113
Pennisetum glaucum 2717, 5697, 6128-6129, 7051, 7473
Phaseolus vulgaris 1971, 5324, 6816
Poland 5364
potatoes 512, 1910, 1933, 2298, 2728, 2920, 3805, 4468, 4639, 5162, 5574, 5935, 5962, 6143, 7062
rape 463, 521, 2072, 3887, 5269, 7998
rice 182, 212, 287, 539, 849, 1538, 1543, 1829, 2013, 2374, 3805, 4542, 4891, 5621, 5633, 5640, 6137, 6264, 7061, 7657
Ricinus communis 1581

Rotations *cont.*
root crops 5364
rye 263, 1601, 1910, 7233, 8113, 8304
sorghum 257, 975, 1543, 1581, 1611, 2374, 3044, 3804, 4517, 6128-6129, 6232, 6582, 6610, 7992, 8314, 8798
Sorghum sudanense 4468
soyabeans 125, 182, 287, 510, 575, 974-975, 1115, 1304, 1543, 1611, 1908, 2085-2086, 2100, 3044, 3459, 3804, 4039, 4044, 4060, 4207, 4645, 4891, 5297, 5772, 6128, 6130, 6645, 6656, 7245, 8157, 8314, 8798
Stylosanthes fruticosa 2717
Stylosanthes hamata 2717
sugarbeet 383, 2266-2267, 2428, 4639, 6356, 8798
sugarcane 3805
sunflowers 511, 3808, 3898, 6225, 6610, 8798
sweetcorn 4468
tobacco 8798
Trifolium pratense 4645
triticale 1601, 2728
Vicia 7988, 8113
Vicia faba 125, 2428, 2838-2839, 5324, 7744, 7988, 8113
Vicia sativa 2533
Vigna mungo 5297, 6130
Vigna radiata 539, 5935, 6128, 6130, 7051, 7061
Vigna unguiculata 539, 849, 1115, 2374, 5100, 5102, 5935, 6130, 6257, 7051, 7473, 7657
wheat 1-3, 9, 18, 29, 32, 84, 257, 263, 463, 510, 512, 521, 539, 601, 1167, 1176, 1372, 1394, 1402, 1538, 1601, 1611, 1933, 1971, 1977, 1979-1980, 1987, 2013, 2072, 2100, 2178, 2428, 2430-2431, 2728, 2902, 3044, 3124, 3138, 3459, 3604-3605, 3804-3805, 3808, 3886-3887, 3898, 4468, 4517, 4639, 4709-4710, 4712, 5025, 5426, 5498, 5621, 5633, 5640, 5697, 5705, 5772, 5897, 5962, 6128-6129, 6137, 6143, 6225, 6232, 6234, 6257, 6264, 6610, 6645, 7051, 7062, 7117, 7482, 7744, 7988, 7992, 7998, 8010, 8304, 8480, 8798
Triticum durum 3044, 8798
Russia
agricultural meteorology 7732, 7962
cereals, seed production 1384
climatic change 7732
potatoes
crop husbandry 7708
cultivars 1768
diseases, viruses 5977
rice
crop husbandry 4888
cropping systems 4888
Siberia
barley, seed production 265
oats, seed production 265
triticale, cultivars 6353
wheat, seed production 265
soyabeans, cultivars 4230
sugarbeet
crop husbandry 7693
cultivars 4433
swedes, cultivars 4444
Vicia sativa, seed production 5074
wheat, yields, stability 1
Rwanda, potatoes, soil conservation, terraces 3685

Rye
accumulation
betaine 94
proline 94
sugars 94
allelopathy 1333, 6314, 8107
Lupinus 7941
maize 7941
Medicago sativa 7941
oats 7941
altitude 4204, 8794
anoxia 8311
catch crops 129

Rye *cont.*
cell membranes
plasma membranes, ion transport 2528
temperature 4802
tonoplast, ion transport 2528
cells, mitochondria, enzymes 3454
chemical composition
proline 3999
sugars 4205
chlorophyll, fluorescence 3997, 6350
chloroplasts
enzymes 3454
metabolism, organic acids 8106
climate 7237
cold hardening 94-95, 1454, 2068, 3997, 5492, 6350, 8105, 8108
cold resistance 1454, 3970, 4803, 6351
continuous cropping 8299
cover crops 129, 314, 384, 517-518
cultivars
Austria 5709-5710
Czechoslovakia 1607
Denmark 8758
Italy 2067, 8104
Poland 710
reviews 7235
Romania 7484
Sweden 7235
USA, Alabama 4968, 8303
Eho 6632
Jangkanghomii 6348
Marder 711, 6632
Rukai 6349
cultivation
chiselling 1910, 3841
harrowing 1453
methods 6347
minimum tillage 1910, 8299
ploughing 1910
straw incorporation 8299
subsoiling 1910
disease control, cultural control 957
diseases
Erysiphe graminis 3452
Gaeumannomyces graminis 6633
drought resistance, cultivars 3999
dry matter accumulation 4198
enzymes
adenosinetriphosphatase 3454
amylases 2732, 8311
catalase 4801, 5337
esterases 95
hydrolases 7236
nitrate reductase 266, 5490
nitrogenase 2745
phosphotransferases 712
transferases 6449
triacylglycerol lipase 2068
equipment, seed drills 4804
fertilizers
farmyard manure 1300, 3052, 3146, 3451, 5333, 7233
nitrogen 93, 526, 529, 1604, 2732, 3058, 3995, 4800, 6347, 7140, 7481, 7484
application date 2443, 3996, 7234
application methods 92
foliar application 2066
sources 92, 2066
use efficiency 8757
NPK fertilizers 1300, 1910, 3052, 3146, 3450-3451, 7233
phosphorus 6347
use efficiency 8757
pig slurry 93, 529, 3058, 7140
potassium 6347
use efficiency 8757
sewage sludge 1936, 5202, 5333
straw 3451
frost injury 4205, 4802
frost resistance 4205, 4802-4803, 8108
fungicides, benomyl 4800
grain
composition
cadmium 1936, 2740
chromium 1936
copper 1936
lead 1936, 2740
nickel 1936
proteins 526, 4200, 5491

Rye *cont.*
- grain *cont.*
  - composition *cont.*
    - zinc 1936
  - enzymes 2732
  - preharvest sprouting, fertilizers 2732
  - quality
    - models 2529
    - precipitation 2529
    - temperature 2529
- growth
  - allelopathy 8107
  - photoperiod 6351
  - temperature 6351
- growth regulators 3146
  - chlormequat 4800
  - cytokinins 95
  - ethephon 2066, 4800
  - ethylene 3455
  - gibberellins 713, 8311
- growth stages 7491
- insecticides, fenvalerate 4800
- intercropping
  - triticale 7243
  - wheat 957
- leaves
  - cell membranes
    - plasma membranes
      - cold injury 5492
      - water relations 5492
  - composition
    - fructans 8306
    - nitrogen 4002
    - phosphorus 4002
    - potassium 4002
    - proteins 1454
  - development 6449
  - enzymes 5337, 5490
  - light 5337
  - metabolism
    - chlorophyll 8307
    - enzymes 4801
    - flavonoids 6449
    - fructans 8306
    - proteins 4801
  - temperature 5337
- light 5337
- light intensity 4801
- metabolic regulators
  - calcium 95
  - calmodulin 95
- metabolism
  - chlorophyll 8307
  - enzymes 4801
  - flavonoids 6449
  - light harvesting complexes 2068
  - organic acids 8106
  - potassium 3062
  - proteins 4801, 8108
  - sugars 4205
- mineral nutrition
  - computer software 7947
  - iron 5437
    - deficiency, reviews 4972
  - models 7947
  - nitrogen 266, 2732
  - phosphorus 8105
  - potassium 3062
- mineral uptake
  - cadmium 7489
  - calcium 2528
  - iron 5437
  - nitrogen 92, 129, 266, 6347, 8769
  - phosphorus 6347
  - potassium 3062, 6347
- multiple cropping, maize 3219
- nitrification inhibitors 7140, 7234
- nitrogen fixation 2745
- pesticides 3146
- pests, *Heterodera avenae* 8304
- photoperiod 3998, 6351
- photosynthesis
  - light harvesting complexes 532, 2068
  - mineral nutrition 8105
  - photoinhibition 3997, 5337, 6350, 8105
  - photosystem II 6350
  - temperature 3970, 4803, 8105
- plant competition, triticale 7243
- Poland 1905

Rye *cont.*
- pollution
  - heavy metals 1936, 5202
  - radionuclides 5354
- precipitation, interception 4202
- reclamation 1609
- remote sensing, identification 7087
- respiration 4198, 8305
- root exudates 6314
  - hydroxamic acid 5437
- roots
  - cell membranes, ion transport 2528
  - composition
    - hydroxamic acid 5437
    - organic acids 6314
- rotations 263, 1910, 8299, 8304
  - barley 1601
  - buckwheat 7233
  - *Lupinus albus* 8113
  - *Lupinus angustifolius* 8113
  - *Lupinus luteus* 8113
  - oats 8113
  - peas 8113
  - potatoes 1601
  - *Vicia* 8113
  - *Vicia faba* 8113
- salt tolerance, cultivars 3999
- seed dormancy 2732
- seed germination 1610
  - allelopathy 1333, 8107
  - anoxia 8311
  - storage 972
- seed inoculation
  - *Azospirillum brasilense* 2745
  - *Azospirillum lipoferum* 2745
- seed quality, organic farming 4714
- seed size 971
- seed testing 971, 1610
- seed weight 971
- seedlings
  - enzymes 712
  - metabolism, ethylene 3455
- seeds
  - anoxia 8311
  - composition, proteins 5491
  - enzymes 7236, 8311
  - growth regulators 8311
  - mechanical properties 2741
  - moisture content 2741
  - storage
    - containers 972
    - temperature 972
- shoots
  - composition, nitrogen 8107
  - enzymes 5490
- soil
  - biological activity in soil 1910
  - humus 8795
  - nitrogen 529
  - potassium 1300
- soil amendments
  - dolomite 3060
  - lime 3060
    - residual effects 3450
- soil compaction 1609, 3841
- soil conservation 8299
- soil fertility 1609, 8794-8795
- soil properties 1607
- soil types 8794
  - peat soils 7077
- soil water content 8299
- solar radiation 3998
  - Poland 4204
- sowing date 958, 4002, 5489
- sowing methods 4804
- sowing rates 710, 3995-3996, 4800, 7481, 7488
- temperature 94, 3970, 3998, 4198, 4803, 5337
  - heat sums 4204
- undersowing, *Lolium multiflorum* 5489
- water use 8299
- weed control, cultural control 8113
- yield components 1609, 7488
- yield correlations 7488
  - Czech Republic 8794
- yields, seasonal variation 7237

Saccharum
- biomass production 3039
- cutting 3039
- fertilizers, nitrogen 3039

Saccharum officinarum (*see* Sugarcane)

Safflower
- antitranspirants 5327
- conferences 5375
- cultivars
  - India 1841
    - Maharashtra 6944
  - Tanzania 6943
  - AC Stirling 6945
  - JSI7 2979
  - San Jose-89 8648
- enzymes
  - phosphoric monoester hydrolases 4658
  - phosphotransferases 4658
  - transferases 8674
- evapotranspiration, estimation 7070
- fertilizers
  - nitrogen 1840, 2804, 2984, 4040, 4649, 6941-6942, 7799
  - NPK fertilizers 7056
  - phosphorus 2984, 4649, 7059
    - residual effects 2804
    - use efficiency 527
  - potassium 8647
  - sulphur 4649
- field experimentation, border effects 3092
- growth 5256
- growth regulators, Paras Photosynth 3807
- herbicides
  - chlorpropham 2980
  - diuron 2980
  - fluchloralin 8801
  - linuron 2980
  - pendimethalin 2980, 8801
  - propyzamide 2980
  - residual effects 8801
- intercropping
  - *Cajanus cajan* 6136
  - *Cicer arietinum* 2882-2883, 3807, 5882, 6801, 6804, 7054
  - *Linum usitatissimum* 7054, 8646
  - maize 4040
  - wheat 6227
- irrigation 2335, 3736, 4641, 6804, 7799
  - growth stages 1840
  - requirements 7070
- leaf area index, irrigation 2335
- metabolism, carbohydrates 4658
- mineral uptake, phosphorus 527
- multiple cropping 7056, 8733
  - groundnuts 7903
  - maize 6136
  - sesame 7903
  - sorghum 4640-4641
- photosynthesis
  - irrigation 2335
  - net assimilation rate 2335
- plant density 7056
- roots
  - distribution, soil compaction 6181
  - growth, soil compaction 3084
  - length, measurement 7945
  - size 3084
- row orientation 6136
- seed germination, metabolism 4658
- seed inoculation, *Azotobacter chroococcum* 6941
- seed maturation 8674
- seeds
  - composition, oils 1840, 2984
  - enzymes 8674
- soil compaction 3084, 6181
- solar radiation, use efficiency 2328
- sowing date 7056
- spacing 2984
- tissue culture
  - explants 8649
  - roots 1842-1843
- water requirements 7070
- water stress 3736
- water use 1840, 6944
- water use efficiency 1840, 4649, 6944, 7799
- weed control, herbicides 2980
- yield components 1841
- yield correlations 2883

Sahel
- land use, remote sensing 1948
- remote sensing, yield forecasting 7959

***Salicornia bigelovii*, tissue culture 3764**
Salinity
barley 119, 1332, 1485, 3082, 3249, 3261, 4206, 4823, 4835, 5535, 7926, 8080, 8141, 8143
cultivars 4836
models 7289
books 3114
Brassica campestris 4591, 8684
Brassica carinata 4591
Brassica juncea 485, 2349, 4583, 4591
Cicer arietinum 375, 1104, 6811
cotton 434, 1027, 1176, 1827, 3702, 4667, 5232-5234, 6027, 7005, 8141
groundnuts 1027, 1332, 8393
Hibiscus cannabinus 1201
Lens culinaris 7679
Lupinus angustifolius 5474
Macrotyloma uniflorum 375, 5906
maize 159, 175, 776, 1514, 2126, 2152, 2598, 3328, 4089-4091, 4206, 4946, 8194, 8203
models 7289
models 4678
peas 324, 326, 5060-5061, 7926
Pennisetum glaucum 4192, 7476
cultivars 4192
Phaseolus acutifolius 5088
Phaseolus vulgaris 2867-2868, 4667, 5088, 8453
potatoes 1808, 2302, 5992
cultivars 3684
growth stages 3684
rape 3750, 4591, 5280
reviews 3838-3839
rice 237, 920-921, 1567, 1577-1579, 2152, 2160-2161, 2682, 2692, 3402, 3404-3406, 4156-4157, 4926, 4946-4949, 5666-5667, 6569, 7387-7388, 7401, 7437-7438, 7926, 8274
cultivars 3403
rye 3999
sorghum 946, 2711, 4182, 5693, 6615-6616
soyabeans 1332, 1652, 3496, 4266, 5012, 6676
sugarbeet 396, 2286, 4441, 4667
sugarcane 7892-7893
sunflowers 3082, 7814
tobacco 3773, 7005
triticale 8111
Vicia faba 1055, 1706, 5069, 5073, 6743
Vigna radiata 4363, 5098
wheat 67, 75, 688-690, 1332, 1436, 2051, 2508, 3082, 3196, 3971, 4206, 4667, 4764, 4776, 4835, 5468-5471, 5474, 6327, 7202-7205, 7926, 8079-8080
reviews 1435
Triticum durum 7204
Sarson (*see Brassica campestris* var. *sarson*)
Saudi Arabia, land use, remote sensing 3857
Secale cereale (*see* Rye)
Seed development, books 592
Seed injury, reviews 8772
Seed maturation, reviews 3822
Seed production
books 592
Japan 3050
Oceania 3050
South America 3050
USA 3050
Seed testing
seed germination, techniques 4676
techniques 2402
viability, techniques 5362
Seeds
composition
free radicals, reviews 8772
lectins, determination, techniques 1942
reviews 3320
metabolism
lipids 7067
reviews 544
reviews 3320, 3822
viability, reviews 8772
Senegal
groundnuts, farming systems 2195
Senegal *cont.*
Pennisetum glaucum, farming systems 2173
Vigna unguiculata, cultivars 7659
Sesame
agroforestry, India, Tamil Nadu 6133
air pollution, acid rain 3846
chemical composition
calcium 4647
iron 4647
magnesium 4647
phosphorus 4647
conferences 5375
continuous cropping 5246
crop husbandry 7791-7792, 7899
cultivars
Australia, Northern Territory 7791-7792, 7899
India 1207-1208, 2974
Bihar 8636
Gene-9101 8639
Jinbaeckae 6928
Ontagota-89 6930
Ostimuri-89 6929
Turinoca-89 7793
drought 6934
enzymes, nitrate reductase 6932, 6934
fertilizers
nitrogen 2334, 6934, 7786-7787, 7789-7790
NPK fertilizers 5248, 7053
phosphorus 2334, 6927, 6934, 7786, 7789-7790
sources 5248, 7788
potassium 6934
sulphur 6927, 7788
growth analysis 5250
growth regulators
abscisic acid 6926
ascorbic acid 6925
chlormequat 6932
gibberellins 6925-6926
IAA 6925-6926
Paras Photosynth 3807
herbicides
alachlor 6931
atrazine 6931
India, Madhya Pradesh 7050
intercropping 8741
Capsicum 2800
Cicer arietinum 3807
groundnuts 5019
maize 3806
rice 8636
tobacco 4593
Vigna mungo 3806
Vigna radiata 3806
irrigation 5250, 6924, 7786-7787
factory effluents 4647, 5249
growth stages 1206
leaf area, estimation 3733
leaves
composition
amino acids 6934
carbohydrates 6934
chlorophyll 6934
proline 6934
proteins 6934
sugars 6934
enzymes 6934
mineral nutrition
nitrogen 6934
phosphorus 6934
potassium 6934
mineral uptake
calcium 7053
magnesium 7053
nitrogen 5248, 6932, 6934
phosphorus 5248, 6934
potassium 5248, 6934
mulches
plastic film 1205, 6931
rice straw 7787
multiple cropping 7052
Cicer arietinum 7903
Coriandrum sativum 7903
Linum usitatissimum 7903
rice 7053
safflower 7903
sorghum 7903
sunflowers 7903
Sesame *cont.*
pests
Antigastra catalaunalis 3731
Aphididae 8640
Cicadellidae 8640
nematodes 5285
Thysanoptera 8640
plant competition, weeds 8799
plant density 6923, 8637
seed germination 1836
factory effluents 5249
seed maturation, cultivars 7794
seedling emergence
soil water content 7905
sowing depth 7905
seeds
composition
antioxidants 7794
carbohydrates 1836
fatty acids 2974, 6991
glucosides 6933
lignans 4549
lipids 4670, 6991
nitrogen 5248, 7788
oils 1836, 2974, 4670, 7788, 7794
phosphorus 5248, 7788
potassium 5248
proteins 811, 1836, 4588, 4670
sterols 2973
sulphur 7788
metabolism
lipids 4670
oils 4670
proteins 4670
soil sterilization 5246
soil water content 7905
sowing date 2334, 4548, 6923, 7907, 8638
sowing depth 7905
spacing 5247, 7785, 8637
taxonomy 444
tissue culture
growth regulators 3732
roots 3732
water relations 6934
water stress 6934
water use 6924, 7786, 7907
water use efficiency 6924, 7907, 8741
weed control
cultivation 6931
cultural control 6931
herbicides 6931
manual weed control 6931
reviews 8799
yield components 1207, 3730
yield correlations 1207, 5250
Sesbania aculeata
enzymes, nitrogenase 8518
fertilizers
molybdenum 8518
phosphorus 8518
intercropping, rice 6480
nitrogen fixation 8518
nodulation 8518
seed inoculation, *Rhizobium*, strains 8518
sowing date 6480
Sesbania cannabina
mineral nutrition
aluminium, toxicity 5908
copper, toxicity 5908
nitrogen fixation 5918
root exudates
amino acids 5918
nitrogen 5918
ureides 5918
soil pH 5908
temperature 5918
Sesbania rostrata
fertilizers, phosphorus 4415, 7045
green manures 7406
intercropping, rice 6480
mineral nutrition
aluminium, toxicity 5908
copper, toxicity 5908
mineral uptake
nitrogen 4415
phosphorus 4415
nitrogen fixation 1114, 5141, 5909
nodulation 8519
stem nodules 1114, 1294
plant density 4415, 7045

Sesbania rostrata cont.
- seed germination, seed treatment 7047
- seed treatment
  - scarification 7047
  - soaking 7047
  - sulphuric acid 7047
- soil pH 5908
- sowing date 5908, 6480
- spacing 4415
- translocation, nitrogen 5909

Sesbania speciosa
- enzymes, nitrogenase 857
- mineral nutrition
  - aluminium, toxicity 5908
  - copper, toxicity 5908
- nitrogen fixation 5141
- plant density 857
- seed germination, seed treatment 7046
- seed production 7046
- seed treatment
  - sulphuric acid 7046
  - temperature 7046
- soil pH 5908
- sowing date 857, 7046

Setaria italica
- chemical composition, sugars 3446
- cultivars
  - 7635-5 3444
  - Jiugu-8 3443
  - Yuliang-5 3426
- enzymes, hydrolases 7069
- fertilizers, nitrogen, use efficiency 2726
- flowers, gynoecium 6624
- growth regulators, benzyladenine 3458
- herbicides
  - alachlor 4969
  - linuron 4969
  - pendimethalin 4969
  - propazine 4969
  - simazine 4969
- leaf water potential, water stress 3446
- leaves, senescence 2177
- photosynthesis 2177
- pollination 6624
- seed germination, herbicides 4969
- seedling emergence, herbicides 4969
- seeds, composition, elements 1327
- sowing date 522
- tissue culture
  - cryopreservation 3445
  - growth regulators 3458
  - regenerative ability 3458
- water stress
  - cultivars 3446
  - growth stages 3446

Sierra Leone, rice, cultivars 7433

Simsim (*see* Sesame)

Sinapis
- plant competition, weeds 8799
- weed control, reviews 8799

Sinapis alba
- catch crops 1906
- cell membranes, plasma membranes, ion transport 1247
- chemical composition
  - boron 6162
  - calcium 6161
  - copper 6162
  - iron 6162
  - magnesium 6161
  - manganese 6162
  - molybdenum 6162
  - nitrates 1246
  - nitrogen 6161
  - phosphorus 6161
  - potassium 6161
  - sodium 6161
  - zinc 6162
- conferences 1362
- cotyledons
  - development 7843
  - metabolism, anthocyanins 7843
- cover crops 384, 517-518
- cultivars
  - Austria 7845
  - Denmark 2384, 8758
- diseases, *Pseudomonas fluorescens* 7084
- enzymes
  - adenosinetriphosphatase 1247
  - glycosidases 4587
  - oxidoreductases 6987

Sinapis alba cont.
- enzymes *cont.*
  - peroxidases 6987
  - ribulose-bisphosphate carboxylase 3745
- fertilizers
  - calcium 3029
  - magnesium 3029
  - nitrogen 6161-6162, 7845
  - NPK fertilizers 7053
  - pig slurry 1246
  - potassium 3029
- flowering, induction 6986
- herbicides
  - glufosinate 3745
  - isoxaben 4656
- irrigation, fertigation 1246
- leaves, exudates 6986
- metabolic regulators, calcium 1247
- metabolism
  - anthocyanins 7843
  - herbicides 4656
  - lipids 471
- mineral nutrition, nitrogen 6161-6162
- mineral uptake
  - calcium 3029, 7053
  - magnesium 3029, 7053
  - nitrogen 8769
  - potassium 3029
- multiple cropping, rice 7053
- photorespiration, herbicides 3745
- photosynthesis, herbicides 3745
- root exudates 6986
- roots
  - development 3074
  - growth 3074
  - length 3074
  - morphology 3074
- seed development, metabolism 471
- seed germination, herbicides 4656
- seed inoculation, *Pseudomonas fluorescens* 7084
- seedling emergence, herbicides 4656
- seedlings
  - cotyledons
    - enzymes 6987
    - phytochrome 6987
- seeds
  - embryos, enzymes 4587
  - metabolism, lipids 471
  - moisture content, determination 6085
- soil inoculation, *Pseudomonas fluorescens* 7084
- soil types 3029
- stems, exudates 6986
- Sweden 3762
- translocation
  - calcium 6986
  - herbicides 4656
  - magnesium 6986
  - potassium 6986

Slovakia, wheat, cultivars 8031, 8089

Slovenia
- remote sensing 7956
- reports, Kmetijski Institut Slovenije, Ljubljana 6206

Soil
- books 6214
- phosphorus, reviews 7060

Soil amendments
- lime 1312
- peat 1915
- phosphogypsum 1312
- sapropel 1915

Soil conservation
- Australia
  - New South Wales 6194
  - South Australia 6194
  - Victoria 6194

Soil fauna, earthworms 4673

Soil fertility
- Lithuania 7911
- reviews 6183

Soil moisture (*see also* Irrigation)

Solar radiation (*see also* Light)
- measurement, apparatus 4677

Somalia
- maize
  - seed crops 7314
  - seed production 7314

Sorghum
- accumulation, betaine 4962
- agroforestry 378, 6584
  - India, Tamil Nadu 6133
- allelopathy 1333
  - *Trianthema portulacastrum* 1334
- apical meristems 3427
- carbon dioxide enrichment 1938, 3453
- catch crops 3044, 8798
- cell culture 3431
- cell membranes, water stress 1591
- cells
  - microsomes, herbicides 5684
  - vacuoles, pH 7011
- chemical composition 4650
  - ascorbic acid 3427
  - betaine 4962
  - calcium 6570, 8787
  - carbohydrates 269, 8279
  - chlorine 5693
  - chlorophyll 269
  - fibre 2703
  - free radicals 3427
  - hydrogen cyanide 2703
  - iron 6570
  - magnesium 937, 6570, 8787
  - manganese 6570
  - nitrogen 240, 937, 6583
  - phosphorus 556, 937, 8787
  - potassium 937, 5693, 6570, 8787
  - proline 556
  - proteins 269, 2703, 8279
  - sodium 5693, 6570, 8787
- chlorophyll, fluorescence 254, 8762
- climate 8798
- climatic change 3862
  - India 1938
  - USA, models 578-581
- conferences 7100
- continuous cropping 975
- crop husbandry
  - Australia, Queensland 6579
  - Lesotho 752
  - models 6580
- crop residues, removal 1582, 6587
- cultivars
  - Australia
    - New South Wales 6602
    - Queensland 6591
  - Cameroon 4172
  - genotype environment interaction 241
  - India 2163, 2705
    - Karnataka 5679
    - Maharashtra 2164, 4167, 5676, 8280
    - Uttar Pradesh 7447
  - Italy 7451
  - mixtures 4172
  - Nepal 7049
  - Tanzania 6603
  - USA 1313
  - Haryana Chari 260 3422
  - Jiliang-1 3423
  - Shen Nong-2 7454
  - Sureno 6604
  - Yuliang-3 3424
  - Yuliang-4 3425
- cultivation
  - chiselling 1583
  - minimum tillage 1583, 3889, 6232, 6582, 6587-6588
  - no-tillage 1583, 3889, 6232, 6586-6588
  - ploughing 1583, 6588
  - ridging 6232
  - stubble cultivation 6587-6588
- cutting 4169, 7447
  - growth stages 2703
- diseases
  - *Macrophomina phaseolina* 5685
  - *Peronosclerospora sorghi* 4175
- drought 8293
- drought resistance 969, 4962
  - cultivars 1591, 3428, 4180
  - reviews 6613
- energy relations 524
- enzymes
  - amylases 3429, 5691, 7458
  - catalase 6150
  - glutamate-ammonia ligase 7925
  - isocitrate lyase 7458

Sorghum *cont.*
enzymes *cont.*
lyases 5688
nitrate reductase 938, 7455, 7925
nitrite reductase 7925
peptide hydrolases 3429
phenylalanine ammonia-lyase 8289
phosphoenolpyruvate carboxylase 4960, 5692, 7459
(s)-2-hydroxy-acid oxidase 6150
sulphotransferases 7068
equipment, harvesters 4183
establishment 6590, 6592, 6617
evapotranspiration 6626
estimation 7070
models 1590
farming systems, Mali 4638
fertilizers 4650
boron, foliar application 938
cattle manure 1585
composts 1585, 2165
copper 959
crop residues 8284
factory effluents 939
farmyard manure 933, 2702, 5675, 5678, 8284
iron 5681
foliar application 6600
sources 5682
manganese 6601
manures, residual effects 975
nitrogen 256, 934, 937, 959, 1321, 1582, 1585, 2165, 2600, 2700-2701, 2703, 3416, 3418-3419, 4165, 4170, 4386, 4649, 4956, 4959, 5675-5676, 5678, 5687, 6582-6583, 6593, 6596-6599, 6812, 7446-7447, 7470-7471, 7912, 8281, 8284-8285
application date 7448
application methods 2162, 7450
residual effects 975, 5404
sources 2162, 7449
use efficiency 2162
models 563
NPK fertilizers 4958, 5679, 6129, 6589, 7056
phosphorus 256-257, 937, 959, 2600, 2704, 2715, 3418, 4649, 5675, 5678, 5687, 6582, 6593, 6596-6597, 6599, 7059, 8284-8285
application date 8754
application methods 2094, 7450
requirements 8754
residual effects 5404
sources 2094, 3811-3812, 4652, 5677, 6812
plant residues 3419
potassium 937, 959, 2600, 6598-6599
application date 3417
foliar application 3417
poultry manure 5683
straw 3419
sulphur 2600, 5683, 6597-6598
sources 1913
zinc 959, 5681, 6596, 6601, 8284
flowering, light 3432
flowering date, water stress 3433
gene expression, enzymes 5692
grain
cell walls, ultrastructure 249
composition
calcium 8288
nitrogen 938, 2162, 8288
phosphorus 938, 8288
potassium 8288
proteins 6596, 6610
determination 4177
sugars 938
tannins 945
endosperm, composition, proteins 4177
enzymes 249
filling 251, 8291-8292
moisture content 6595-6596
quality, reviews 2742
weight 8291-8292
grain drying 6595
green manures, *Leucaena leucocephala* 4959
growth 2744

Sorghum *cont.*
growth *cont.*
models 1590, 5712-5713, 7444
temperature 269
water stress 1330
growth regulators
abscisic acid 2707, 4964
ascorbic acid 7443
auxins 943
benzyladenine 944, 4963
cytokinins 943
2,4-D 4963
gibberellins 4165, 4169, 7443, 7468
IAA 944, 4169
kinetin 944, 4169, 4963-4964
NAA 944
harvest index 2700
harvesting date 6595
harvesting losses 3049
herbicides
alachlor 4969
bentazone 5684
2,4-D 242, 2165
dicamba 242
fluchloralin 4174, 8286
linuron 4969
metolachlor 5684, 7469, 8286
pendimethalin 4969
primisulfuron 5684
propazine 4969
pyridine herbicides 1341
residual effects 242
simazine 4969
triasulfuron 5684
insecticides
aldicarb 1672
carbofuran 4957
intercropping 6584, 8741
Acacia nilotica var. *cupressiformis* 378
Annona squamosa 8739
Cajanus cajan 3411, 4164, 4642, 5673, 6585, 8286
Cyamopsis tetragonoloba 6585
groundnuts 3411, 4643, 5781, 6687
Leucaena 4956
Leucaena leucocephala 3447, 5707
Phaseolus vulgaris 931
Phyllanthus emblica 8739
soyabeans 3411, 8279
sunflowers 4642
Vigna mungo 3411, 5675
Vigna radiata 4642
Vigna unguiculata 3580, 6585, 7471, 8464
irrigation 934, 1299, 3430, 3804, 4641, 6590, 7471
fertigation 6589
furrow irrigation 6594
growth stages 6593
requirements 7070
saline water 5404, 8748
sewage effluent 3414
sodic water 8748
sprinkler irrigation 6626
irrigation scheduling 6643
models 1590
leaf area 7464-7466
leaf diffusion resistance 556
leaf water potential 556, 2712, 3433, 6611
water stress 2713
leaves
canopy
development, models 7462
reflectance 7471
temperature 946
cell walls
composition
fibre 8293
nitrogen 8293
composition
carotenoids 2711
chlorophyll 254, 1588
elements 5344
determination 258
fibre 8293
insecticide residues 1672
nitrogen 2162, 8293
potassium 1591
sugars 1591

Sorghum *cont.*
leaves *cont.*
enzymes 938, 7455
growth 8294
temperature, models 7464-7465
metabolism
amino acids 7455
nitrogen 7925
organic acids 7455
osmoregulation 8294
pH 7011
reflectance 254
removal 5685
senescence, temperature, models 7466
stomatal resistance 1591
water stress 2713
turgor 1591
water stress 1591, 2712, 8294
light 2711, 5692
transmittance 7444
use efficiency 8790
light intensity 3453
metabolic inhibitors
cobalt 1589
phenolic acids 5691
metabolic regulators, calcium 7459
metabolism
anthocyanins 1589, 8289
ascorbic acid 3427
growth regulators 7468
heat shock proteins 940
herbicides 5684
nitrogen 7925
phosphorylation 7459
proteins 1925
mineral nutrition 4650
aluminium 3066, 7455
tolerance 5686
cultivars 7453
toxicity 245-246, 2168, 5686, 7456-7458
reviews 244
boron 938
calcium 246
iron, deficiency 1588, 6600, 7490
magnesium, deficiency 246, 5686
manganese, toxicity 7468
nitrogen 240
sources 245
phosphorus 556
sources 7919
potassium 8288
silicon, reviews 244
mineral uptake
aluminium 246, 2168
calcium 246, 2168, 7453
chlorine 5693
copper 2168, 5683
iron 2168, 5682-5683, 6158, 7453, 7490
magnesium 2168, 7453
manganese 2168, 5683, 6601
nitrogen 256, 1321, 2706, 4957, 6583, 6607, 7066, 8285
phosphorus 256, 2094, 2168, 2706, 6601, 6608, 7453, 7919, 8285
potassium 2168, 2706, 3417, 5693, 7453
scandium 2169
silicon, reviews 244
sodium 5693
zinc 2168, 5683, 6601, 7453
mulches 2702, 8743
bitumen emulsions 5674
maize stover 933
multiple cropping 7056, 8733
barley 1907
Cicer arietinum 4640-4641, 8284, 8743
groundnuts 4641
safflower 4640-4641
sunflowers 4640
wheat 1907, 4640-4641, 6252
mycorrhizas 257, 7470, 7555
nitrogen cycle 7066
osmoregulation 6611
panicles, initiation 3433
pests
Calocoris angustatus 8287
Chilo partellus 243
pH 5686

Sorghum *cont.*
photoperiod 3432
photorespiration 6150
photosynthesis 2166, 5336
carbon dioxide 3453, 7011
carbon pathways 4960, 6150, 7011
cultivars 4176
enzymes 4960, 7459
gas exchange 3453
isotope fractionation 2170, 3453, 5344
light 2711
light intensity 7011
photoinhibition 2711
salinity 2711
temperature 6606
water stress 2713
phytochrome 3432
phytotoxins 8762
plant competition, weeds 4173
plant density 240, 947, 3413, 4168, 6592, 7056, 7444, 8291
pollen, temperature 940
pollination 8292
precipitation 7048
production, Lesotho 8312
protoplasts
enzymes 7459
metabolism, phosphorylation 7459
ratooning 6593
remote sensing 1947, 7471
yield forecasting 2716
yields, estimation 6618
research, Australia 6581
respiration 251, 5336
temperature 6606
root exudates, siderophores 7490
root shoot ratio, water stress 7467
roots
cation exchange capacity 3066
damage, mineral nutrition 5686
growth 3430, 3436
herbicides 7469
mineral nutrition 556
models 7463
soil pH 7469
water stress 556
hydraulic conductivity 3436
length 556, 3066
metabolism
amino acids 7455
organic acids 7455
water relations, models 5689
water stress 6612
water transfer 6612
rotations 8798
Cicer arietinum 257, 6610
cotton 6582
fallow 1581, 6232, 6588
Lablab purpureus 6610
oats 6129
rice 2374
Ricinus communis 1581
soyabeans 975, 3804
Stylosanthes hamata 1581
sunflowers 6610
Trifolium alexandrinum 6129
wheat 257, 3804, 6232, 6610
salinity 946, 2711, 4182, 5693, 6615-6616
salt tolerance 4182
cultivars 5693
seed certification, Colombia 3051
seed germination
allelopathy 1333-1334
cultivars 2714
DIMBOA 4859
enzymes 249, 3429
glumes 248
harvesting date 248, 6609
herbicides 4969
manures 5691
metabolic inhibitors 5691
metabolism 5690
phenolic compounds 2709
mineral nutrition 7468
moisture content 2709
pH 2710, 2714
seed size 8280
seed treatment 2709, 5869
soil pH 7468

Sorghum *cont.*
seed germination *cont.*
sowing methods 1299
temperature 2708, 7072
water relations 7072
water stress 2707, 2714, 3964
seed inoculation
Azospirillum brasilense 256, 3436, 4957, 6812, 7446
Azotobacter 2715, 6583
Azotobacter chroococcum 7446
Bacillus polymyxa 256
Glomus mosseae 7470
Pseudomonas striata 256, 4957, 6812
seed maturation 6609
seed production 3415, 3418
Colombia 3051
seed size 4165, 8280
seed treatment
coating 6589-6590
composts 3429
formaldehyde 2709
fungicides 6590
growth regulators 4165, 7443
insecticides 5869, 6589
soaking 2709, 4165, 6589
soaking/drying 6590
sugars 4165
temperature 2709
seed weight 4165
seedling emergence 8280
herbicides 4969
irrigation 6590
mineral nutrition 7468
models 942
soil pH 7468
soil physical properties 255
soil temperature 932, 6617
soil water content 932, 7905
soil water potential 942
sowing depth 932, 7905
temperature 942
seedlings
greening 5692
growth
allelopathy 1334
seed size 8280
seeds
composition 2707
elements 1327
nitrogen 938
oils 7458
phenolic compounds 2709, 5690
phosphorus 938
proteins 5690, 6104
determination 4177
starch 5690
sugars 938, 5690
tannins 945, 5690
endosperm, composition, proteins 2167, 4177-4178
enzymes 5691, 7458
imbibition
enzymes 3429
glumes 247
leaching, sugars 6619
metabolism
phenolic compounds 5690
proteins 5690
starch 5690
sugars 5690
tannins 5690
preharvest sprouting 2707
storage
relative humidity 6619
temperature 6619
vigour 3964
water uptake 5691
shading 251, 7461
cultivars 4179
soil
aluminium 5687
erosion, models 2744
nitrogen 3889, 5687, 7066
phosphorus 2704, 5687
sodic soils 6570
zinc 5687
soil amendments
Biotron 3420
gypsum 1583
hydrophilic polymers 934

Sorghum *cont.*
soil amendments *cont.*
lime 5687
microorganisms 3420
soil compaction 932
soil conditioners 5674
soil conservation 1348, 7445
soil erosion 8312
soil fertility 6610
soil inoculation
Azospirillum 5675
Azospirillum brasilense 6812
Glomus versiforme 257
Pseudomonas striata 6812
soil pH 2168-2169, 2714, 7456-7458, 7468-7469
soil physical properties 255, 932, 5683
soil temperature 932
soil types 6608, 8288
soil water 5689
soil water content 932-933, 6232, 6607, 7905
solar radiation, use efficiency 7444
sowing date 947, 2701, 3413-3415, 4167, 4170, 6593, 7056, 7301, 7444, 7907
sowing depth 932, 3430, 7905
sowing methods 8743
broadcasting 1299
direct sowing 1299
sowing rates 1299, 2700, 3412, 4168, 7301, 8281
spacing 240, 4168, 4961, 6591, 6593, 6687, 7471
stems
cell walls
composition
fibre 8293
nitrogen 8293
composition
fibre 8293
nitrogen 8293
metabolism
carbohydrates 8290
lignin 8290
stomatal resistance 4961
stubble, removal 1583
sweet sorghum
biomass production 1587, 4166
cultivars 1586, 7452
chemical composition, carbohydrates 4166
cultivars
Italy 1586
Switzerland 7452
USA, Minnesota 1587
dry matter accumulation 935
ethanol production 1587, 4166, 8283
evapotranspiration 4181
fertilizers
nitrogen 4166
NPK fertilizers 5680
growth regulators
ethephon 1584
gibberellins 1584
NAA 250
zeatin 250
harvesting 8282
methods 8283
harvesting date 4166
harvesting losses 936
irrigation 935
juice quality 5680
leaf area 935
leaf area index 935
leaf water potential 941
leaves, canopy, temperature 941
lodging 936
sowing date 4166
sowing rates 4166
stems
composition
cultivars 4171
sugars 4171, 5680
storage 8282
tissue culture
culture media 250
growth regulators 250
regenerative ability 250
water stress, determination 941
water use 4181

Sorghum *cont.*
temperature 254, 269, 940, 3453, 4203, 4973, 6606
growth stages 4973
heat sums 3413, 4974, 6617
tissue culture
growth regulators 943-944, 4963-4964
regeneration 4963-4964
translocation
calcium 7453
carbohydrates 251
iron 7453
magnesium 7453
phosphorus 7453
potassium 7453
source sink relations 251
zinc 7453
transpiration 556, 3428, 5344, 7467
cultivars 253
water stress 253
water conservation 1348, 7445
water relations 253, 2713, 4203
reviews 1330
water requirements 7070
cultivars 3428
water stress 253, 556, 2712-2713, 4973, 6611-6612, 7467, 8294
cultivars 1591, 2714
determination 4203, 6643
growth stages 252, 945, 3433-3434, 4973, 6614
reviews 1330
water transfer 3428
water uptake 6594, 7460-7461, 7467
water use 6232, 7448, 7907
water use efficiency 4168, 4649, 6594, 7448, 7907, 8741
weed control
antitranspirants 6605
cultural control 2165
herbicides 2165, 8286, 8800
manual weed control 8286, 8800
weeds
Striga 2165
Striga hermonthica 3416, 6605
Trianthema portulacastrum 4174
yield components 3421, 4176
cultivars 241
yield correlations, cultivars 2164
yield forecasting, remote sensing 6618
yield targets 4958
yields
physiology 6613
stability 6591, 6602
South Africa
reports
Department of Agricultural Development 2413, 3872-3873, 3875, 8814
South African Sugar Association Experiment Station 3874
sugarcane, land use 8707
wheat, cultivars 4739
South African Homelands
Kwazulu
maize
crop husbandry 782
cultivars 782
South America, seed production 3050
South East Asia
agroforestry, books 1967
farming systems, taungya, books 1967
legumes, bibliographies 8822
Soyabeans
accumulation
boron 4994
calcium 4994, 6132
copper 4994
iron 4994
magnesium 4994, 6132
manganese 4994
molybdenum 4994
nitrogen 283, 2190, 4994, 5016, 5776, 6132, 7690
phosphorus 283, 4994, 6132
potassium 283, 4994, 6132
proteins 5004
starch 1315
sucrose 1315
sugars 1315
Soyabeans *cont.*
accumulation *cont.*
zinc 4994
agricultural meteorology 3495
Europe 599
models 1535
Taiwan 7961
USA 1535
agroforestry 2085
India, Tamil Nadu 6133
air pollution
acid rain 2190, 2789, 3846
carbon dioxide 299
ozone 299, 1654, 5356, 7550
models 7551
protectants 1075
sulphur dioxide 559, 2790, 3497, 5012, 7552
protectants 1075
allelopathy 1333, 8784
altitude 5768
anaerobiosis 2390
biomass production 977
buds
abscission 1004
shading 1004
carbon dioxide enrichment 299, 1938, 2788-2789, 4241, 4991-4993, 5769, 6184
reviews 1656
catch crops 3044, 7519, 8798
cell cultures
enzymes 2774
herbicides 2767, 3068-3069
metabolism
hydrogen peroxide 6664
pesticide residues 7537
proteins 2186
photosynthesis 8332
salinity 3496
cell division 6670
growth regulators 1883
cell membranes
plasma membranes
electron transfer 1636
enzymes 1636, 1681, 8342
isolation 1647
cell walls, enzymes 7540-7541
cells
composition, proteins 6670
endocytosis 5006
reviews 5758
microsomes 3489
microtubules 6670
mitochondria, enzymes 7539
ultrastructure 5746
chemical composition
amino acids 5739
antioxidants 7552
cadmium 2391
calcium 5725, 8787
carbohydrates 8279
chloride 4266
chlorophyll 3617, 4991
copper 1625, 2391, 7512
fatty acids 1646
galactose 2900
glycosides 2900
iron 1625, 6157, 7512
lead 2391
magnesium 5725, 8787
manganese 285, 1625, 7512
nitrates 4266
nitrogen 289, 1011, 1657, 2798, 3486, 5774-5777, 7514
oils 1625
organic acids 8786
phosphorus 279, 282, 2798, 5725, 7512, 8334, 8787
phytates 2900
potassium 5725, 8787
proteins 8279, 8331
saponins 2900
sodium 4266, 5725, 8787
sulphur 4980, 7514
trypsin inhibitors 1329
ureides 1661, 5755
zinc 1625, 2391, 7512
chlorophyll, fluorescence 2183, 2188
climate 8798
Korea Republic 4261
Soyabeans *cont.*
climate *cont.*
Mexico 4262
climatic change 3862
India 1938
models 5769
USA, models 578-581
cold injury 7550
cold resistance 1010, 1651, 5766
continuous cropping 1611
cover crops 277, 6829
legumes 1908
Trifolium subterraneum 756, 1298
wheat 272
crop husbandry, India 973, 8313
crop residues, incorporation 761
cultivars
Australia, New South Wales 5728
Austria 7517
Brazil, Santa Catarina 4654
Canada 1618
Ontario 3473
Quebec 4979
China 6649
classification 562
France 4220, 7918
genotype environment interaction 8327
India 985, 1621
Karnataka 7502
Madhya Pradesh 7513, 8318
Maharashtra 4215
Nagaland 6639
Orissa 4226
Italy 7519
Japan 7518
Korea Republic 5727
Mexico 7521
mixtures 4218
Russia 4230
USA 1313, 1653
Florida 5760
Illinois 1618, 4984-4985
Indiana 4984
Kansas 4984-4985
Kentucky 1001
Minnesota 1618, 4209, 7516
Missouri 4984-4985
Ohio 5335
Wisconsin 977
Ayahikari 2760
Clara 3472
Delsoy-4210 4984
Delsoy-4710 4985
EMBRAPA-2 4983
EMBRAPA-3 4983
Erie 7520
Harbar 7521
Hartwig 1623
Jangsukong 6650
Kariyutaka 2759
MACS58 4228
Mageva 4229
Mallikong 5727
Manta 5728
Nattoking K88 3473
Pharaoh 7522
Rassvet 4230
Soer-1 4230
TUC-G16 2758
Yumeyutaka 4227
cultivation
chiselling 3459, 4209, 4211, 7904
conservation tillage 976, 7296
discing 3459, 7904
harrowing 7904
minimum tillage 1602
no-tillage 273, 976, 1909, 2181, 3046, 3459, 4044, 4209, 4211
ploughing 3459, 4208-4209, 4211, 7904
ridging 1602, 3459
subsoiling 2181, 4208
damage, responses 5348
determinate and indeterminate habit 1613, 1622, 4220, 8328
disease control
fertilizers 6659
fungicides 6657
diseases 2751
Alternaria tenuissima 3485

Soyabeans *cont.*
diseases *cont.*
Cercospora 6659
Cercospora kikuchii 990, 4977, 7528
Cercospora sojina 1634, 6657
Colletotrichum truncatum 7527
Corticium rolfsii 6658-6659
Corynespora cassiicola 6659
Fusarium solani 5736, 7526
Macrophomina phaseolina 4238, 6659
Myrothecium roridum 8325
Peronospora manshurica 6659
Phomopsis longicolla 990
seedborne fungi 3461
soybean mosaic potyvirus 1630, 6660
soybean yellow mosaic virus 7529
drought 6642, 6674-6675
drought resistance 6673, 6675
cultivars 1008
dry matter accumulation 3464, 5016
estimation 4252
dry matter distribution 5721
energy relations 3043
enzymes
acid phosphatase 997, 2774
adenosinetriphosphatase 284, 1681
alcohol dehydrogenase 1637
aminotransferases 992
amylases 2778, 4245, 8332
esterases 5765
glutamate-ammonia ligase 284, 1652, 2895, 4266, 8347
glutamate dehydrogenase 992
glutamate synthase 1652, 4266
glycosidases 7540
hydrolases 1633, 2780, 5002, 8338
isomerases 996, 1638
lyases 1638, 2185
malate dehydrogenase 6304
nitrate reductase 284, 993, 1652, 2187, 4060, 4266
nitrite reductase 1652
nitrogenase 373, 984, 4239, 4268, 5011, 5729, 5743, 6676, 8352
oxidoreductases 992, 1636, 1638-1639, 2184, 2775, 3491, 3826, 5729, 6677, 7539, 7552, 8341-8342
oxygenases 1644-1645, 2185, 2777, 4244, 4246, 4995, 5001, 6665, 7550, 8336, 8338
pectinesterase 5003, 7540
peptide hydrolases 998, 1640, 2776, 2779, 5000
peroxidases 1634, 3491, 4266, 5729, 6677, 8341
phosphoenolpyruvate carboxylase 1652, 4266, 5744, 6304
phosphoric monoester hydrolases 996, 1638, 3488, 7541
phosphotransferases 996, 6663
ribulose-bisphosphate carboxylase 1652, 2188, 3825, 4240, 4657, 6166, 6304, 8332
(s)-2-hydroxy-acid oxidase 1652
sucrose synthase 800, 1632, 3488, 3492, 4998, 8347
superoxide dismutase 1634, 2790, 4999, 5729, 5745, 7552
trypsin inhibitors 1644-1645, 2779, 2900, 5913
equipment
harvesters 7505
subsoilers 5717
evapotranspiration 1009, 3465, 6642
estimation 1932, 7070
models 306
fertilizers 6139
boron 2382
cattle manure 2100
chlorine fertilizers 7526
composts 6147
copper 284, 2382, 6647
crop residues 4060
farmyard manure 630, 980, 6645, 7512, 7902
foliar application 5715
iron 984
magnesium 983, 2182, 2784
manganese 284, 1659

Soyabeans *cont.*
fertilizers *cont.*
manganese *cont.*
sources 285
molybdenum 284, 984, 1659, 6678
nitrogen 300-301, 303, 514, 980, 982, 1392, 1616, 2100, 2310, 2755-2756, 3486, 4037, 4217, 4649, 4979, 4981, 5005, 5297, 5715, 5775, 6638, 6645, 6678, 7498, 7503, 7507, 7509-7510, 7746, 7915, 8325
application methods 5724
models 563
residual effects 2086, 6497
sources 4238, 5724, 8326
use efficiency 980, 7508, 8757
NPK fertilizers 4215, 6645, 7496, 7512-7513, 7902, 8324
organic fertilizers 5715
phosphorus 278, 980-983, 1503-1504, 2100, 2192, 2755-2756, 2798, 4225, 4649, 4980-4981, 5715, 5720, 6641, 6659, 7059, 7511, 7915, 8322-8325
application date 4224
application methods 281
foliar application 4224
requirements 279
residual effects 4223
sources 280-283, 1304, 1617, 3468, 3811-3812, 6646, 8326, 8753
use efficiency 279, 282, 980, 1296, 8333, 8757
pig manure 630
pig slurry 6147
potassium 980, 983, 1392, 1504, 2100, 2182, 2754, 2756, 4057, 4225, 6659, 7527-7528, 8323-8325
residual effects 3910, 4223
sources 283
use efficiency 980, 8757
poultry manure 630
residual effects 630
selenium 3470
sewage sludge 7515
slurries 282
sulphur 278, 983, 2382, 3469-3470, 4649, 4980, 7514, 8322
residual effects 1307
sources 8326
trace elements 983, 2100
zinc 284, 630, 980, 2382, 4982, 7511-7512, 7902
sources 5725
use efficiency 980
field experimentation
border effects 307
experimental design 4270
statistical analysis 2752, 4270
flowering
induction 5762, 7548
photoperiod 1006
light intensity 5760
models 8345
flowering date 1006, 5760
models 5752
flowers
abscission 1004, 4251, 4253, 6668, 6671
development 7549
fertilization 5751
gynoecium 5751, 5754
number 6671
ovules, development 3494
shading 1004
foliar application, amino acids 4242
fungicides
benomyl 6659, 7527
captan 4211, 6636, 6659
carbendazim 2756
metalaxyl 4211
gene expression, proteins 293
grafting, cultivars 4250, 5778
green manures
Crotalaria juncea 1617
Fagopyrum esculentum 1617
Mucuna aterrima 1617
growth, models 292, 1007, 7557

Soyabeans *cont.*
growth period, cultivars 1001, 1641
growth regulators
abscisic acid 291, 3488, 3493, 6172, 7542, 8344
ancymidol 8782
ascorbic acid 5742
auxins 1883, 8524
BAS111W 6172, 8782
benzyladenine 291, 1642, 3494, 4253, 4257, 5009, 6662, 8346
cimectacarb 8782
cytokinins 3487, 8343, 8524, 8732, 8781
Cytozyme 8524
2,4-D 1003
ethamon 4665
ethephon 277, 5722
ethylene 2188
flurprimidol 1075
forchlorfenuron 8732
fusicoccin 7531
gibberellins 291, 2784, 3466, 3488, 3492, 4257, 7542
IAA 3493, 4257, 8343-8344
IBA 5009
jasmonic acid 293, 2777, 5004, 7542, 8783
kinetin 291
mepiquat 8782
NAA 1003
paclobutrazol 1075, 3492, 8782
polyamines 5003
prohexadione 8782
salicylic acid 7542
tetcyclacis 1075, 8782
TIBA 5723
triacontanol 6644
triapenthenol 8782
triazoles 6172
residual effects 7504
zeatin 4994
growth stages 1614
habit 5761
fasciation 7546
harvest index 1621
determination 7506
harvesting, machinery 1615
harvesting date 5722, 6683-6684
harvesting losses 1612, 1615, 3049
determination 7505
heat flow 2792
heat shock 5765, 7550
heat tolerance 995
herbicides
AC 263-222 988
acetochlor 1624
acifluorfen 273, 2764, 3477, 7524
adjuvants 1945
alachlor 987, 3474, 3815, 4232-4233, 6438, 7523, 8482
application date 2763-2764, 6651
atrazine 2765, 4233, 6438
bentazone 2767, 3477
bromoxynil 1943
chloramben 6438
chlorimuron 1626-1627, 2764
clethodim 2763
clomazone 987, 2764, 2766, 4233
cyanazine 4988
2,4-D 2765
dimethazone 7523
diuron 4821
fenoxaprop-P 2763
fluazifop-P 2763, 6438
fluchloralin 987, 2756, 7523, 8482
fomesafen 1624, 2764, 7524
glufosinate 988, 3069
glyphosate 988, 1943, 1945, 3068, 3815
haloxyfop 2763
imazaquin 986, 1624, 1626-1627, 2764, 3478-3479, 4232, 4988, 6651
lactofen 7524
linuron 1943, 2766, 4233, 4988
metolachlor 987, 1624, 3477, 4988, 7523
metribuzin 1624, 2764, 2766, 3474, 3477, 3479, 4231, 4233, 4988
oxadiazon 987, 3815, 7523

Soyabeans *cont.*
herbicides *cont.*
paraquat 988, 1943, 5729, 8330
pendimethalin 987, 1625, 7523
propaquizafop 2763
pyridate 1943
pyridine herbicides 1341
residual effects 4233
sethoxydim 2763, 3477
simazine 3815, 4821
sulfometuron 4821
tolerance 1626-1627, 8330
cultivars 4231
toxicity 988, 1945, 2765-2768, 3479, 4233, 4821, 4989, 7524
tridiphane 6438
trifluralin 1944, 3479
hydroponics, pH 7534
hypocotyls
growth
cultivars 291
growth regulators 8343
metabolic regulators 8343
temperature 291
growth regulators 291
India, Madhya Pradesh 7050
inoculation
Bradyrhizobium japonicum 996, 1658
strains 1013
insecticides
acephate 4235
carbaryl 288
carbofuran 5013
carbosulfan 5013
chlorpyrifos 2795
cyfluthrin 4235
cypermethrin 3481
deltamethrin 3481
demeton 5013
dimethoate 3480
endosulfan 7496
fenvalerate 3481
lambda-cyhalothrin 4235
lindane 2795
malathion 288
monocrotophos 5013, 6653-6654, 7496
phorate 5013, 6653
phosphamidon 3480
quinalphos 3481, 6652
tralomethrin 4235
intercropping 7900
Brachiaria mutica 8740
Cajanus cajan 4649, 6790-6791, 8322, 8482
Calliandra calothyrsus 2085
cassava 2310
cotton 5716, 7498, 7746
Erythrina orientalis 2085
Gliricidia sepium 2085
groundnuts 7688
Guizotia abyssinica 7829
Leucaena leucocephala 2085
maize 514, 1296, 4037
Peltophorum pterocarpum 2085
rice 6823
Ricinus communis 8745
sorghum 3411, 8279
sugarcane 5297, 6106, 8709
sunflowers 6946
tobacco 4593
wheat 5395
irradiation, ultraviolet radiation 2193, 2397, 5010, 8351
irrigation 276, 523, 981, 1299, 1332, 1611, 3043, 3462, 3464-3465, 3804, 5014, 5720, 5763-5764, 6641-6642, 7499, 7503, 8745
growth stages 2756, 4221
sprinkler irrigation 275, 4221
subsurface irrigation 1119
trickle irrigation 275, 4221
irrigation requirements 275
irrigation scheduling 4264, 5014, 6643
land use 573, 1344
leaf area 3617, 5747, 7532, 7545
herbicides 986
measurement 7945
leaf area index 297, 3464
leaf conductance 1650
leaf water potential 1009, 2190, 4992, 7532
leaves
abscission 1642, 2190
accumulation
nitrogen 1631
phosphorus 1631
ureides 1633
canopy
energy relations, models 2791
light, interception 1005
reflectance 2130
models 8353
composition
amino acids 1652, 2790
ascorbic acid 1634
calcium 283, 1652, 3910, 8323
chlorine 1652
chlorophyll 1652, 2190, 5012, 8331
measurement 3853
flavonoids 2189
glycosides 5763
herbicide residues 1944
magnesium 3910, 8323
nitrogen 283, 299, 1631, 1652, 3910, 8350
organic acids 1652
phosphorus 283, 996, 1631, 1652, 3910, 8323
polyamines 5010
potassium 283, 1652, 3910, 8323
proline 1652
proteins 294, 996, 1652, 3497-3498
sodium 1652
starch 299, 996, 8331
sugars 299, 996
sulphur 5012
ureides 1661
development 2185
enzymes 993, 996, 998, 1633, 1639, 2185, 2187, 2790, 3488, 3491-3492, 3826, 4240, 8332
fluorescence 2768
gas exchange 2788
growth 4240
herbicides 986
growth regulators 3488
light 5759
metabolism
aldehydes 2185
carbohydrates 3488
pesticide residues 7537
polyamines 5010
proteins 1010
sucrose 800
ureides 1633
mitochondria, enzymes 992
morphology 1002
nastic movements
fertilizers 5005
water stress 5005
orientation 2183, 5759
water stress 4265
removal 999, 1650, 4222, 5747, 5749, 8331
senescence 4240
stomata 7532
density, water stress 5763
stomatal movement 999
stomatal resistance 2788, 6184
surface water, determination 7556
temperature 2788, 7532
thickness 5917
tropisms, heliotropism 2183
water relations 6184
weight 7532
light 8347
far red light 2786
interception 979
penetration 277
quality 5010, 8348
red light 2786
use efficiency 8790
light intensity 5010, 5760, 5917, 6676
lodging 5721
mechanical stress 1655
metabolic inhibitors 8343
metabolic regulators
calcium 1636, 6663
calmodulin 1636, 6663
metabolism
aldehydes 2185
amino acids 992
anthocyanins 5004
ascorbic acid 5742
carbohydrates 1632, 2782, 7538
diurnal variation 3488
carotenoids 6662
chlorophyll 6662
cutin 8338
dolichols 4996
fatty acid esters 4996
fatty acids 4995
flavonoids 1658
growth regulators 8781
heat shock proteins 995, 5911
herbicides 2766, 3068-3069
hydrogen peroxide 3489, 6664
lectins 7538
leghaemoglobin 2184
lipids 290, 1634, 7552
pesticide residues 7537
phosphorylation 5744
phytoalexins 1635
polyamines 5010
potassium 3062
proteins 1010, 2787
purines 4997
starch 996
sugars 2787
ureides 1633
mineral nutrition
aluminium 2757, 3066
toxicity 3065
boron 284, 4242, 4994
deficiency, cultivars 7536, 7691
calcium 2757, 4242, 4994
cobalt 284
copper 3466, 4994, 4999
iron 2757, 3466, 4994
deficiency 4243, 6662
magnesium 2784, 4243, 4994, 7535
deficiency 1392
manganese 284, 2757, 4994
deficiency, cultivars 7536
toxicity 7535
molybdenum 284, 4242, 4994
nitrogen 289, 301, 305, 982, 996, 1392, 1652, 2183, 3466, 3486, 4991, 4994, 5778, 6123, 7509, 8335
deficiency 6661
sources 992
phosphorus 982, 1631, 2192, 2757, 3466, 4655, 4994, 5739, 6123, 8333-8334
deficiency 1632
requirements 279
sources 1617, 7919
use efficiency 279
potassium 1392, 3062, 3466, 4994, 6123
silicon 7535
zinc 284, 3466, 4242, 4982, 4994, 7535
deficiency, cultivars 7536
foliar diagnosis 7512
mineral uptake
aluminium 983
boron 983
cadmium 7489
caesium 6139
calcium 983, 7534
copper 983, 6647, 7534
iron 983, 6158, 7534
magnesium 983, 7534
manganese 285, 983, 7534
molybdenum 7534
nitrogen 301, 981, 1011, 1392, 1653, 3486, 4224, 5724, 5739, 5741, 6123, 6132, 6661, 6829, 7534, 8333
nitrate nitrogen 993
phosphorus 279, 282, 981, 983, 1296, 2192, 3469, 4224, 5741, 6123, 6132, 7534, 7919, 8333
sources 1617

Soyabeans *cont.*
- mineral uptake *cont.*
  - potassium 981, 983, 1392, 3062, 4224, 5740-5741, 6123, 6132, 7534, 7902
  - radionuclides 6139
  - sodium 983
  - strontium 6139
  - sulphur 3469
  - zinc 983, 7534
- mulches 5020
  - live mulches 756, 1298
- multiple cropping 6132, 7546
  - barley 1907, 3465
  - *Eleusine coracana* 3043
  - maize 7902
  - okras 8734
  - potatoes 8734
  - rice 3043
  - wheat 272, 1611, 1907, 3465, 3910, 6252, 7497, 7902
- mycorrhizas 2192, 2798-2799, 3501, 3578, 4424, 7555
  - water stress 4373
- nematicides, aldicarb 1628, 4014, 4236-4237, 5731-5732
- Nigeria 7900
- nitrogen fixation 1012-1013, 1660-1661, 2183, 2797, 3486, 3493, 3498-3499, 3501-3503, 3617, 4269, 5014, 5016, 5724, 5737, 5771, 5773-5774, 5777, 5918, 6497, 6677, 6829, 7507, 7509, 7553, 8333, 8344, 8352
  - cultivars 2796, 3504, 5776
  - estimation 4267
  - fertilizers 984, 7503
  - growth stages 5015, 5776
  - irrigation 7503
  - mineral nutrition 301
  - pests 4990
  - phytoalexins 7554
  - reviews 304-305, 8526
  - soil types 301
- nodulation 302-303, 1012-1013, 1616, 1658, 1660-1662, 1754, 2794, 2797-2798, 3493, 3498, 3500, 3502-3503, 4217, 4268-4269, 5014-5015, 6497, 6681, 7509, 7553, 8315, 8333, 8344, 8352
  - cultivars 2796, 3504
  - fertilizers 300, 1659, 2755, 4979, 5037, 5775, 6638, 6678, 7503
  - insecticides 2795, 5013
  - irrigation 7503
  - pests 4990
  - plant density 4979
  - reviews 6679
  - salinity 6676
  - soil amendments 6678
  - sowing date 6638
- nodules
  - anatomy 382, 6676
  - cell division 302
  - composition 5729
    - carbohydrates 5011
    - glycoproteins, determination 2191
    - leghaemoglobin 3498
    - nucleic acids 8347
    - nucleotides 1663
    - plant pigments 1663
    - proteins 3498
    - ureides 5011
  - development 4268
  - diffusion, oxygen, models 373
  - enzymes 1639, 2184, 4239, 4268, 4998, 5011, 5729, 5743-5744, 6676-6677, 8341
  - gas exchange 3499, 5770
  - metabolism 8337
    - ascorbic acid 6677
    - glutathione 6677
    - leghaemoglobin 4268, 8347
    - nucleotides 1663, 6677
    - phosphorylation 5744
    - phytoalexins 7554
    - plant pigments 1663
    - proteins 8347
    - purines 4997
  - mitochondria, enzymes 2775
  - morphology 6676

Soyabeans *cont.*
- nodules *cont.*
  - number 1013, 1657, 1660-1661, 2797, 3498, 3504, 5037, 5772, 5778, 6680, 6823, 7511, 7553
  - oxygen 2184, 2191, 4239, 5011, 5743, 5770-5771
  - phosphorylation 8337
  - respiration 4239
  - senescence 5015, 6676
  - size 1013
  - translocation, malate 8337
  - ultrastructure, techniques 3505
  - weight 1660, 3503-3504, 5037, 7553
- Pakistan 7495
- pest control
  - cultural control 1673, 4014, 6656
  - insecticides 4235
  - nematicides 4014
- pests
  - *Acrosternum hilara* 5730
  - *Alternaria alternata* 991
  - *Apheliona maculosa* 6654
  - *Ayyaria chaetophora* 3480
  - *Bemisia tabaci* 6652
  - *Cerotoma trifurcata* 3482-3483
  - *Chrysodeixis includens* 3484
  - *Cneorane* 6652
  - *Cyrtacanthacris tatarica* 2771
  - *Delia platura* 2772, 4234
  - *Diabrotica undecimpunctata* 4990
  - *Diaporthe phaseolorum* var. *caulivora* 2773
  - *Euschistus servus* 5730
  - *Gibberella zeae* 991
  - *Helicotylenchus* 4236
  - *Helicotylenchus dihystera* 7525
  - *Helicotylenchus pseudorobustus* 4236
  - *Helicoverpa zea* 989, 5735, 6655
  - *Heterodera* 4236
  - *Heterodera glycines* 276, 1628, 2773, 4237, 5731-5735
    - models 1629
  - *Hoplolaimus* 4236
  - *Hoplolaimus indicus* 7525
  - *Hoplolaimus seinhorsti* 7083
  - *Melanagromyza sojae* 6653
  - *Meloidogyne* 4236
  - *Meloidogyne arenaria* 4237, 7083
  - *Meloidogyne incognita* 6656, 7083, 7525
  - *Meloidogyne javanica* 7083
  - *Myllocerus* 6652
  - *Nezara viridula* 2770, 4235, 5730
  - *Paratylenchus* 4236
  - *Paratylenchus projectus* 4236
  - *Phomopsis longicolla* 991
  - *Piezodorus guildinii* 5730
  - plant parasitic nematodes 1673, 4014
  - *Pratylenchus* 4236
  - *Pratylenchus hexincisus* 4236
  - *Pratylenchus penetrans* 4014
  - *Pseudomonas syringae* pv. *glycinea* 2773
  - rabbits 2769
  - *Riptortus serripes* 2770
  - *Rotylenchulus reniformis* 7525
  - *Spilarctia obliqua* 3481
  - *Thysanoplusia orichalcea* 6652
  - *Tylenchorhynchus* 4236
  - *Tylenchorhynchus vulgaris* 7525
  - *Xiphinema* 4236
  - *Xiphinema ifacolum* 7083
- photoperiod 1006, 5718, 5761-5762, 7548
- photorespiration 5749
- photosynthesis 1315, 4240, 5336, 5749, 8331
  - air pollution 299, 2789
  - CAM pathway 7530
  - carbon dioxide 2789, 4241, 4991-4993, 6184, 8332
  - carbon dioxide enrichment 299, 1656, 2788
  - diurnal variation 5738
  - electron transfer 2188
  - enzymes 6304
  - estimation 2194
  - gas exchange 2188, 2190, 4241, 7532
    - measurement, apparatus 6284
  - growth regulators 2188, 7531

Soyabeans *cont.*
- photosynthesis *cont.*
  - inhibitors 2768
  - insecticides 288
  - light 5917
  - light intensity 4241, 4992, 8332
  - mineral nutrition 980, 1632, 6661
  - models 4992-4993
  - photosystem II 2768, 5737
  - salinity 1652
  - soil inoculation 3501
  - temperature 7533
  - water stress 298, 4265, 4564, 4992, 5763, 7533
- phytoalexins 7554, 8340
  - reviews 1635
- phytochrome 2786
- plant competition 2772, 4251, 5767
  - weeds 287, 1750, 2761, 3475-3476, 4986-4987, 8799
- plant density 274, 981, 2752, 2772, 4213, 4220, 4249, 4979, 5715, 5741, 6640, 6946, 7501-7502, 7518, 8279, 8317, 8320, 8328
- pods
  - abscission 1004, 4251, 6668, 6671
  - development 7549
  - enzymes 5745
  - growth 6661
  - mineral nutrition 6661
  - number 6671
  - position 5748
  - removal 999, 5749, 8331
  - shading 1004
- pollen, development 5753
- pollination 1643
- pollution
  - copper 6647
  - iodine 2395
- precipitation 3495, 5769, 7362-7363, 7497
- production possibilities, Mexico 4262
- protoplasts
  - cell division 296
  - endocytosis 5007
- relative humidity 2787
- relay cropping
  - barley 2534
  - wheat 1299, 3460
- remote sensing 1664, 1947, 8353
  - polarization 2130
  - thermal radiation 2698
- respiration 5336, 7530
- root exudates
  - allelopathins 6783
  - amino acids 5918
  - flavonoids 4424
  - nitrogen 5918
  - ureides 5918
- root tips, accumulation, callose 3065
- roots
  - bacteria
    - *Azospirillum brasilense* 4786
    - *Pseudomonas* 5358
  - binding, *Bradyrhizobium japonicum* 5017
  - cation exchange capacity 3066
  - cell division 302
  - cell membranes
    - electric potential 4786
    - transport, lipids 4256
  - cells, endoplasmic reticulum 4256
  - composition
    - nitrogen 6680
    - potassium 4266
    - proteins 6669
    - starch 8331
  - distribution 1909
  - enzymes 1639, 1652, 2187, 2895, 4999
  - growth 6648, 7296, 8625
    - herbicides 986
  - length 3066
  - metabolism, purines 4997
  - mitochondria, enzymes 992, 2775
  - respiration 373
  - temperature 8625
- rotations 510, 575, 5297, 8798
  - barley 4207, 4891, 7245
  - *Linum usitatissimum* 974, 4207
  - *Lupinus* 974

Soyabeans *cont.*
rotations *cont.*
maize 1304, 1611, 1908, 2085-2086, 2100, 3459, 3804, 4060, 6130
models 7245
oats 974, 4207
rape 974, 4207
rice 287, 4891
sorghum 1611, 3804, 8314
tobacco 6656
wheat 974, 3459, 3804, 4207, 5772, 6645
salinity 1332, 1652, 3496, 4266, 5012, 6676
salt tolerance 3496
seed aging 6636
seed certification, Colombia 3051
seed development 1614, 5750, 8348
enzymes 2779, 5745
growth regulators 7542
metabolism 2779
seed germination 1650, 2750, 2783, 4216, 4248, 4975
allelopathy 1333
frost injury 991
growth regulators 5722
harvesting date 3467, 5722, 6683
herbicides 988
irradiation 3461
metabolism 5899
carbohydrates 2782
dolichols 994
esters 994
fatty acids 994
thiamin 380
pests 991
seed size 4976
seed treatment 4271, 6636, 6667, 8524
sowing methods 1299
storage 3856, 5722, 8356
temperature 6636, 7072
water relations 7072
seed injury 3047, 4216, 4977
seed inoculation
Azospirillum brasilense 8352
Bradyrhizobium japonicum 300, 303, 1660-1662, 2749, 2797, 3493, 3500, 4217, 5014, 5018, 5774, 6678, 6680, 7553-7554, 8315, 8344, 8352
strains 1012, 1657, 3498, 5773, 5775
phosphobacteria 2749
Pseudomonas 1092
Rhizobiaceae 1754
Rhizobium 2793, 5037, 7510-7511, 8320, 8324
Rhizobium fredii 5018, 5774
strains 6681
seed production 6188
Colombia 3051
seed quality 1753, 2751, 3047, 3470, 4248, 6188
harvesting date 6684
seed shattering, cultivars 286
seed size 291, 4976, 8355
seed testing 4975, 6187-6188, 6683-6684
vigour 6830
seed treatment 6659
accelerated aging 291, 3856
coating 2749, 6636
fungicides 2756, 4211, 6636, 8316
growth regulators 8524
hot air treatment 4271
hot water treatment 4271
insecticides 5013
irradiation 3461
osmotic pretreatment 4210
propolis 6658
scarification 4271
sulphuric acid 4271
seed weight 988
seedbed preparation 273
seedling emergence
cultivation 4209
seed size 4976, 6637
seed treatment 6636
soil pH 8350
soil temperature 4212
temperature 6636

Soyabeans *cont.*
seedlings
composition
carotenoids 8524
chlorophyll 8524
dolichols 994
esters 994
fatty acids 994
growth
seed treatment 8524
soil pH 8350
growth rate 3047
light 2786
metabolism
dolichols 994, 4996
esters 994
fatty acid esters 4996
fatty acids 994
phytochrome 2786
vigour 8356
seeds
composition
alcohols 1000
aldehydes 1000
ash 8356
cadmium 2391, 7515
calcium 982
carbohydrates 5722, 8356
cobalt 7515
copper 1625, 2391
elements 1327, 4248
enzyme inhibitors 2899
fatty acids 1646, 3833, 5914, 8348, 8356
galactose 2900
glycosides 2900
iron 1625
isoflavones 5757
lead 2391
lipids 1644-1645, 3832, 5750, 5914, 7508
magnesium 982
manganese 1625
nickel 7515
nitrogen 289, 300, 303, 982, 2793, 6497
oils 281, 1328, 1625, 3461, 4215, 4248, 4980-4981, 5722, 5768, 6641, 7498, 7514-7515, 8348, 8356
determination 4247
organic acids 8786
phenolic acids 4254
phospholipids 3833
phosphorus 982
phytates 2900
potassium 982
proteins 562, 990, 1644-1645, 1753, 4215, 4248, 4420, 4981, 5722, 5750, 5756, 5768, 6641, 6680, 7508, 7514-7515, 8331, 8348, 8356
determination 4247
saponins 2900, 7543-7544
sulphur 982
trypsin inhibitors 1753
zinc 1625, 2391
cotyledons
differentiation 5746
enzymes 4246, 5001
desiccation 2787
tolerance 6672
embryos
composition, proteins 5008
ultrastructure 5008
enzymes 1640, 1644-1645, 2776, 2780, 4244, 5000, 5745, 8336
filling 7547
duration 5016
frost injury 991
grading 4977
hard seeds 1650, 4271
imbibition 6667, 8339
leakage, electrolytes 7071
metabolism
fatty acids 8348
nucleic acids 8339
proteins 2779, 2787, 8339
sugars 2787
thiamin 380

Soyabeans *cont.*
seeds *cont.*
moisture content 4212, 6830
determination 4161, 4247
physical properties, determination 4255
storage 5722, 8357
containers 3856
moisture content 8528
temperature 8356
ultrastructure 1328
viability 6683, 8339, 8356-8357
storage 3856
vigour 1000, 1650, 4210, 4212, 4216, 6683, 6830, 8339, 8355-8356
harvesting date 3467
weight 1650
seismic stress 1655
shading 1004, 2189, 5761, 5917, 6671
shoots
composition, nitrogen 2793, 3498, 6497
development, plant density 4249
mitochondria, enzymes 2775
soil
aluminium 1115, 8350
phosphorus 1504, 8323
potassium 1504, 4057, 8323
soil amendments 6123
calcium silicate 282
food wastes 734
gypsum 1115, 5725, 8326
lime 285, 1011, 1115, 2182, 2757, 4223, 5740, 6645, 6648, 6678, 7528, 8324, 8326, 8350
magnesian limestone 6146
magnesium carbonate 8326
potassium silicates 282
surfactants 4225
soil compaction 3046, 5717, 7296
soil density 7904
soil fertility 6123
soil inoculation
Acaulospora 2798
Bradyrhizobium japonicum 1659-1661, 2796, 3499, 3501, 4217, 5772, 5774, 6682
Gigaspora calospora 2798
Gigaspora margarita 2798
Glomus intraradices 4424
Glomus mosseae 2798, 3501, 4424
mycorrhizas 2192
Pseudomonas fluorescens 3501
Rhizobium fredii 3502, 5774
Thiobacillus 3469
soil pH 1011, 1653, 5740, 6157, 8350
soil physical properties 4208, 6123
soil temperature 6829, 7501, 8625
soil texture 4217
soil types 271, 1392, 2749, 4044, 4208, 4217, 5725, 6647
soil water 1332, 1627, 7904
soil water content 7497
solar radiation 297, 3495
use efficiency 3464, 4263
sowing date 272, 300, 522, 1614, 2752, 3459, 3462, 4212, 4214-4215, 5718-5719, 5768, 6638-6639, 7497, 7500, 7557, 8318-8319
models 2753
sowing methods 274, 4216, 4978
broadcasting 1299
direct sowing 1299
sowing rates 977-978, 1299, 1612-1613, 3462, 4219, 7499, 8317
spacing 273-274, 977-979, 981, 1612-1613, 2752, 2772, 3459, 3463-3464, 4213, 4217-4219, 4978, 5720, 6640-6641, 7501-7502, 7518, 7523, 8279, 8320
stems
composition, ureides 1661
growth 6666
herbicides 986
plant density 4249
mechanical properties, cultivars 295
morphology, fasciation 7546
removal 4222
sap flow, measurement 8354
water potential 6666

Soyabeans *cont.*
stomatal resistance
air pollution 299
carbon dioxide enrichment 299
water stress 4564, 5763
strip cropping
maize 4645
sorghum 4645
soyabeans 4645
temperature 291, 995, 1010, 1630, 3495, 5718, 5769, 5911, 5918, 7533, 7548
tissue culture 1649
cotyledons 4258
cultivars 4259
culture media 1003, 2785, 4257-4258, 4260, 5009
embryo culture 1648, 2785, 4257-4259, 5009
explants 2785, 4260, 4994
growth regulators 1003, 2785, 4257, 5009, 8346
metabolism, growth regulators 3487
mineral nutrition 7536, 8335
regenerative ability 1003, 1648, 4259, 8346
salinity 4266
temperature 4257
translocation
ascorbic acid 5742
boron 4994
cadmium 2391
calcium 4994
copper 2391, 4994
growth regulators 4994
herbicides 2766-2767
iron 4994
lead 2391
lipids 290
magnesium 4994
malic acid 993
manganese 4994
molybdenum 4994
nitrogen 1631, 4994, 5739, 5741, 5776, 6661
phosphorus 1631, 4994, 5741
potassium 4994, 5741
reviews 8526
source sink relations 999, 7690
sucrose 3490
zinc 2391, 4994
transpiration 1650
water stress 4265, 4564, 5763
tropisms, heliotropism 2183
virucides
demeton-methyl 7529
monocrotophos 7529
plant extracts 7529
plant oils 7529
water management, models 8321
water requirements 7070, 7362-7363
water stress 298, 986, 1650, 2753, 3488, 4238, 4265, 4373, 4564, 4992, 5005, 5014, 6673, 7533
cultivars 5763
determination 6643
growth stages 4264, 7549
models 1007, 7551
remote sensing 2130
water supply 1344, 2183
water table 1332, 8349
water uptake 4986
models 2781
water use 523, 2788, 3465, 6674
models 306
water use efficiency 4649, 4993, 5720, 6829
waterlogging, cultivars 5764
weed control 756, 1298, 2761-2762, 4987
cultivation 3474, 3477, 3815, 4232, 6438
cultural control 3815, 7523, 8329, 8482
herbicides 1624-1625, 2756, 3474, 4231-4232, 4988, 6438, 6651, 7523, 8329, 8482
integrated control 3477, 3815, 6438
manual weed control 273, 1625, 1750, 2756, 2763, 7496, 7523, 8482
mulches 3477

Soyabeans *cont.*
weed control *cont.*
reviews 8799
weeds 2762, 5735
Abutilon theophrasti 3477, 3484
Amaranthus 3475
Amaranthus hybridus 3477
Cassia obtusifolia 4232, 4986, 7524
Chenopodium album 3477
Commelina benghalensis 4988
Crotalaria spectabilis 7524
Digitaria horizontalis 2763
Digitaria sanguinalis 287, 1624
Echinochloa crus-galli 287, 2761, 3476
Eleocharis kuroguwai 287
Eleusine indica 2763
Eupatorium 3815
Euphorbia heterophylla 2764
Fimbristylis miliacea 287
Galeopsis tetrahit 4231
Galinsoga parviflora 1624
Hyptis lophanta 4988
Imperata cylindrica 3815
Ipomoea grandiflora 4988
Ipomoea lacunosa 4232
Lantana camara 3815
Pennisetum setosum 2763
Portulaca oleracea 1624, 4988
Raphanus sativus 1624
Setaria 1624
Setaria faberi 3477
Sorghum halepense 8329
Xanthium strumarium 3478, 4986, 6651
yield components 271, 5748
cultivars 8328
growth regulators 5723
water stress 4264
yield correlations 1619-1622, 3471, 5747, 7690
cultivars 5726, 5755, 6668
leaf area 7545
soil water content 6826
yield forecasting 4099
models 3864, 7557
yields
seasonal variation, models 1007
water table, models 2648
weather, models 1007

Spain
agricultural meteorology, books 599
barley, cultivars 735, 4011
land use, remote sensing 3099, 5714
remote sensing 6192, 7955
reports, Servicio de Investigación Agraria 7976
sunflowers, cultivars 452, 1217, 3740
wheat
cultivars 3153, 8029
Triticum durum, cultivars 3153

Sphenostylis stenocarpa, root exudates, allelopathins 6783

Sri Lanka
groundnuts, cultivars 8151
irrigation 7910
rice, green manures 2668

Statistical analysis
books 8837-8838
computer software 3854
maize, yields 4095
multiple comparison test, reviews 3855
techniques 3980

Stomatal movement
calcium, reviews 4662
reviews 4663

Stomatal resistance
growth regulators, reviews 6168
water stress, reviews 6168

Strip cropping
maize 1489, 4645
rice 7380
sorghum 4645
soyabeans 4645

Sudan, *Lens culinaris* 5125, 7672

Sugar crops
fertilizers
NPK fertilizers 8752
requirements 8752

Sugarbeet
agricultural meteorology 4707

Sugarbeet *cont.*
agricultural meteorology *cont.*
Europe 599
Irish Republic 3118
UK 3118
air pollution, ozone 2394
bolting, growth regulators 6841
books 8823
carbon dioxide enrichment 4241
cell culture, protoplasts 4439
cell membranes
composition, proteins 3816
ion transport 1762
plasma membranes
ion transport 6837
transport
sucrose 391
sugars 390
uptake
amino acids 3628
sucrose 2915, 3628
proton pump 1762
tonoplast
ion transport 394
calcium 4435
uptake, sucrose 389
cell walls, composition, callose 2290
cells
ultrastructure 4438
vacuoles
electric potential 3627
ion transport 3627
chemical composition
boron 7702
calcium 8787
copper 7702
magnesium 8787
manganese 7702
nitrogen 6838
phosphorus 8787
potassium 8787
sodium 8787
zinc 7702
circadian rhythm 1134
climate 8798
Ukraine 395
climatic change, Czechoslovakia 3848
computer software, remote sensing 5159
continuous cropping 1117, 2267, 5928
cover crops
barley 384
Phacelia 384
residual effects 384
rye 384
Sinapis alba 384
crop husbandry 1356
Russia 7693
crop management
expert systems
computer software 5158
Netherlands 1295
cultivars
Belgium 4431, 5927, 7701
Denmark 2384
Germany 7694
Moldova 4433
Netherlands 6148-6149
Poland 2285, 4432, 8534
Russia 4433
UK 1125, 3623
Ukraine 4433
Druzhba MS34 6835
L'govskii MS35 6835
Monohikari 1126
Monohomare 1128
Monopearl 1127
Monowhite 1129
Oriks 6835
Ramonskii MS46 6835
Rizor 5928
cultivation
chiselling 3841
conservation tillage 1336, 1934, 5920
depth 2577, 7693
loosening 2906
methods 2268
minimum tillage, residual effects 4426
no-tillage 1934
ploughing 2906, 6836, 7693
stubble cultivation 2906

Sugarbeet *cont.*
cultivation *cont.*
subsoiling 519
disease control 4639
fungicides 1132
diseases
beet necrotic yellow vein furovirus 5928
Cercospora beticola 1131
energy requirements 2905
environment 7704
enzymes
acid phosphatase 3626
adenosinetriphosphatase 284
aminotransferases 8536
amylases 4436
carboxy-lyases 8536
β-fructofuranosidase 1135, 1761, 2918
glutamate-ammonia ligase 284
glutamate dehydrogenase 8536
glycogen (starch) synthase 3626
glycosidases 4436
isomerases 3626
ligases 1761
lyases 2914
nitrate reductase 284, 6838
oxidoreductases 2286, 8538
peptide hydrolases 1761
peroxidases 4441
phosphoric monoester hydrolases 3626, 4437, 5156
phosphotransferases 3626
sucrose synthase 3629, 4436, 5156, 8537
transferases 3626
equipment
seed drills 7697
weeders 7697
evapotranspiration 667, 3080, 5499
estimation 1930-1931
fertilizers
application date 2275
boron, foliar application 2275, 2913
cattle slurry 2281, 2906
composts 4639, 6147
crop residues 6144
farmyard manure 388, 554, 1117, 1123, 1311, 1758, 2268, 2277, 2284, 2906, 4639, 5150, 5922, 6144, 6834, 7700, 7916
foliar application 2275, 2909
magnesium 2276, 2279-2280, 2282, 2284
foliar application 2275
manganese, foliar application 2913
manures 1302
models 8751
nitrogen 529, 1118, 1123-1124, 1135, 1758, 1761, 2273, 2276-2277, 2279, 2281-2282, 2284, 2912, 3057, 3632, 4429, 5150, 5152, 5154, 6144, 6834, 7693-7694, 8755
application date 387, 5149, 5151, 5922, 7700
application methods 519, 2278, 2381, 3622, 3813, 4430, 8530
foliar application 2275, 5923
requirements 2380, 7936
models 8756
reviews 2381
sources 387, 2911, 5924
use efficiency 2911, 8530
NPK fertilizers 554, 1117, 1302, 2267, 4639, 7916
cattle manure 6833
liquid manures 6833
poultry manure 6833
organic fertilizers 5332, 7916
organomineral fertilizers 2282-2284
phosphorus 1758, 2276, 2279, 2282, 2284, 2912, 5922, 5925, 6144, 6834, 7693, 7700, 8530
application date 5151
application methods 3622, 3813
requirements, models 8756
sources 388
pig slurry 529, 3057, 6147

Sugarbeet *cont.*
fertilizers *cont.*
potassium 528, 1758, 2276, 2279, 2282, 2284, 2912, 5150, 5922, 6144, 6834, 7700, 8530, 8755
application date 5151
poultry manure 2284, 5152, 5154
requirements 4429, 8750
sewage sludge, residual effects 530
sheep manure 7916
straw 2906, 6144, 7916
trace elements, foliar application 2275
flowering
induction 5157
photoperiod 5157
flowers
anthers 2290
composition, elements, determination 5932
fungicides
boletin 1132
copper oxychloride 1132
organomercury fungicides 1756
thiram 1756
triadimefon 1132
gene expression, enzymes 2286
green manures
Phacelia 2266
rape 2266
Sinapis alba 388, 2266
growth 2287, 6840
models 1138, 2288, 2917, 4442, 5159
growth regulators
abscisic acid 6841
ACC 4441
4-acetoaminophenolic acid 2909
2-aminobenzoic acid 2909
benzimidazoles 4667
benzyladenine 4438, 7703
cytokinins 1120, 4667
2,4-D 4438
daminozide 1120
ethamon 4665
ethephon 5148, 5930
ethylene 4441
gibberellins 6841
maleic hydrazide 2909
paclobutrazol 5930
seaweed products 1927
TIBA 7703
triazoles 5930
growth stages 5929
harvesting
damage 3619-3621, 6832
machinery 3619-3621, 6832
methods 1760, 3618
harvesting date 385, 1123, 1761, 2274, 2277, 2904, 2910, 7694, 7699
harvesting losses 2272, 2274, 3619-3621, 4428
herbicides
alloxydim 8533-8534
benzthiazuron 8533
chloridazon 8533-8534
chlorimuron 2914
chlorsulfuron 2914
clopyralid 8532
cycloate 4434
desmedipham 3624
diclofop 8533-8534
diethatyl 4434
ethofumesate 4434, 8533-8534
fluazifop 8532
glyphosate 3768
imazaquin 2914
imazethapyr 2914
isocarbamid 8534
lenacil 6836, 8533-8534
metamitron 8534
metsulfuron 2914
nicosulfuron 2914
phenmedipham 3624, 6836, 8532-8534
primisulfuron 2914
quizalofop 8532
TCA 6836
thifensulfuron 2914
thiobencarb 8534
tolerance 2914
triasulfuron 2914

Sugarbeet *cont.*
insecticides
aldicarb 4434
carbofuran 4434
chlorpyrifos 4434
fonofos 4434
terbufos 4434
irrigation 385-386, 523, 2273, 2904, 4427, 5499, 5921
furrow irrigation 4646
subsurface irrigation 1119
irrigation requirements 8747
land use 573
leaf area 1117
leaf area index, estimation 1763
leaf water potential 5156
leaves
anatomy 3630
composition
amino acids 6842
arabinitol 1928
carotenoids 1117
chlorophyll 1117, 5931
determination 2916
dry matter 6843
nitrates 1758
nitrogen 6843
organic acids 6842
phosphorus 6843
potassium 6843
proteins 5156
starch 5156, 6842
sugars 5156, 6842
cuticle 3630
development 3628
enzymes 1135, 2286, 4436-4437, 5156
metabolism
amino acids 396
chlorophyll 1322
herbicides 3768
plant pigments 1322
proteins 1322, 4437
starch 1134, 4436
sucrose 1134, 4436
sugars 396
petioles, enzymes 3626
photosynthesis 6842
reflectance 7936
removal 5157
senescence 1322
stomata 3630
light 4437, 6838
maturity stage, estimation, techniques 2294
metabolic regulators, calcium 394
metabolism
carbohydrates 1941, 3626
chlorophyll 1322
herbicides 2914, 3768
nitrogen 8536
plant pigments 1322
polyamines 8536
potassium 3062
proline 8536
proteins 1322
starch 1134
sucrose 1134
mineral nutrition
boron 284
deficiency 1133
cadmium 3630
cobalt 284
computer software 7947
foliar diagnosis 6843
magnesium, foliar diagnosis 2276, 2279, 2292
manganese 284
models 7947
molybdenum 284
nitrogen 1135, 5154
foliar diagnosis 2276, 2279, 2292, 2911
phosphorus 5925
foliar diagnosis 2276, 2279, 2292
potassium 3062
foliar diagnosis 2276, 2279, 2292
zinc 284
mineral uptake
boron 7702
calcium 1760

Sugarbeet *cont.*
mineral uptake *cont.*
copper 7702
magnesium 1760
manganese 7702
nitrogen 1124, 1311, 1760, 4430, 5922, 6834, 8530
phosphorus 1760, 5922, 6834
potassium 1760, 3062, 5475, 5922, 6834, 8755
promethium 3844
zinc 7702
mulches, crop residues 7698
nitrification inhibitors 387
photosynthesis 396, 2287
carbon dioxide 3625, 3817, 4241
electron transfer, inhibition 1759
gas exchange 4241
herbicides 3624
isotope fractionation 396
light harvesting complexes 5153
light intensity 4241
photosystem I 1322
photosystem II 1322
plant competition, weeds, models 1130
plant density 1118, 1757, 2273, 4427, 5921, 6845, 7694, 7696-7697
Poland 8529
pollen, composition, elements, determination 5932
pollution
cadmium 7942
chromium 530
cobalt 7942
promethium 3844
radionuclides 3844
precipitation 554, 7704
protoplasts 4439
composition
amino acids 6842
organic acids 6842
starch 6842
sugars 6842
photosynthesis 6842
remote sensing 1763
identification 1342, 3098, 7087, 7951
models 5159
radar 2917, 7950-7951
reflectance 2917, 3097
root exudates
amino acids 3631
proteins 3631
sugars 3631
root shoot ratio 2294
rooting depth 2577, 5155
roots
cells, vacuoles 394
composition
amino acids 1761, 2289
betaine 2289
dry matter 6843
nitrates 1758
nitrogen 1761, 2289, 3632, 5150, 5152, 5154, 6843
phosphorus 6843
potassium 5150, 5154, 6843
proteins 2289
sodium 5154
sucrose 2912, 3624
sugars 1757, 1761, 2912, 2918, 5150, 5152, 5154, 5924, 5929, 6840, 7696, 7699
damage 6845
density 5155
development 5155
distribution 5155
enzymes 1761, 2918, 8537
growth 5929
soil compaction 1137
hydraulic conductivity 392
length 5155
metabolism, proteins 2918
mitochondria
electric potential 8538
enzymes 8538
osmotic pressure 5154
plastids, isolation 6844
quality 1755
storage, temperature 2918
rotations 1117, 4639, 8798
barley 383, 2266-2267

Sugarbeet *cont.*
rotations *cont.*
legumes 2266
maize 383
oats 2266-2267
Onobrychis viciifolia 383
peas 383
Vicia faba 2267
wheat 383, 2266-2267
salinity 396, 2286, 4441, 4667
seed characteristics 393
seed contamination 393
seed germination 1121
mineral nutrition 2291
seed size 6839
seed treatment 1756, 2270, 7695
soil pH 2291
storage 7705
temperature 4425
seed inoculation, *Pseudomonas*, reviews 3090
seed production 1121
fertilizers 5922, 7700
seed quality
fertilizers 5922
mineral nutrition 2291
soil pH 2291
seed testing 7705
seed treatment
coating 2907
fungicides 1756
humic acids 7695
pregermination 1756
sodium hydroxide 2270
washing 2271
seedbed preparation 2269, 4425
seedling emergence 1122, 2269, 3813, 4425, 8533
seed treatment 1756, 2907
sowing methods 2907
seedlings, growth 5926
seeds
cleaning 393
harvesting, methods 1121
imbibition 6839
mechanical properties 393
physical properties 393
storage 7705
vigour, seed treatment 2270
singling 2272
site factors 2293
soil
magnesium 2276, 2279-2280, 2292
nitrogen 529, 2276, 2279, 2292, 2912, 5923
organic matter 1311
phosphorus 2276, 2279, 2292, 2912, 3622, 6182
potassium 1133, 2276, 2279, 2292, 2912, 5475
soil amendments
lime 1123, 1758, 6834
models 8751
slags 1916
worm casts 5926
soil compaction 1137, 1336, 1934-1935, 3841, 6845
soil fertility 2291
models 8751
soil inoculation, *Pseudomonas*, reviews 3090
soil pH 2291
soil temperature 4425
soil types 5931, 6182
peat soils 7077
soil water content 554, 1802, 4425
solar radiation 4440
sowing, comparisons, transplanting 1118, 5147
sowing date 385, 1118, 2904, 7694, 7696
sowing depth 1756
sowing methods 2907, 7696-7697
spacing 1118, 1757, 2272-2273, 2908, 4646, 7697
stecklings
harvesting 1122
storage 1122
weight 1122
thinning, growth stages 2910
tissue culture
culture media 4438

Sugarbeet *cont.*
tissue culture *cont.*
enzymes 4441, 8536, 8538
explants 7703
growth regulators 4438, 4441, 7703
metabolism
ethylene 4441
nitrogen 8536
polyamines 8536
proline 8536
regeneration 1136
regenerative ability 7703
salinity 4441
somaclonal variation 8539
topography 2293
translocation 396
carbohydrates 1941
photosynthates 3626
source sink relations 3626
sucrose 2915, 8535
transpiration 3071
mineral nutrition 3630
transplanting 1121, 6831, 7696
comparisons, direct sowing 1118, 5147
date 1118, 5147
methods 5147
vernalization 5157
water stress 5156
water table 5931
water use 523, 1931, 2577, 3071
water use efficiency 2577, 3071, 5499
weed control 1356
cultivation 6836, 7697, 8531
cultural control 6836, 7693
herbicides 6836, 8531-8532
manual weed control 8532
rotations 6836
weeds 2293
Chenopodium album 1130
Polygonum persicaria 1130
Stellaria media 1130
yield correlations 395
yield forecasting 1802
remote sensing 2917
yields
seasonal variation 6840
weather, models 3102

Sugarcane
agroforestry, Colombia 1951
allelopathy 8275
antitranspirants, kaolin 2364, 5300
biomass production 505
estimation 4637
buds, morphology 7039
carbon dioxide enrichment 1938
cell culture
growth regulators 509, 5318
regeneration 509
temperature 1288, 5318
cell cultures
accumulation, sucrose 1287
enzymes 5318
metabolism, sucrose 1287
respiration 5318
cell membranes
metabolism, lipids 3037, 7037
plasma membranes, permeability 7037
tonoplast, uptake, sucrose 4633
cells, composition, proteins 4633
chemical composition
ash 2366
fibre 2366
iron 7892
nitrogen 2366
nucleic acids 7041
phosphorus 2366, 4632
polyamines 7888
potassium 2366
proteins 7041
reducing sugars 2366, 7022
sucrose 1896, 2366, 3785, 3791, 4619, 4635, 8711, 8729
sugars 6116, 7022, 8717
climatic change, India 1938
cold injury 5318
cold resistance, cultivars 1289
conferences 589-590, 1955, 5376-5377
continuous cropping 8275

Sugarcane *cont.*
crop husbandry
India 8706
Indonesia 1263
USA, Florida 7898
crop management 500
cultivars
Argentina 4623
Colombia 4625
genotype environment interaction 8724
India 1897, 4624, 5308
Arunachal Pradesh 6109
Assam 4628
Haryana 7028, 8716
Indian Punjab 1269, 1272
Maharashtra 1271
Tamil Nadu 1270, 5303, 5307, 7020, 8723
Uttar Pradesh 1273, 4629
Indonesia 4630, 5309-5312, 6120
Malawi 7029
Mauritius 3034, 4615, 4622
Pakistan 4626-4627, 5313, 7884
Taiwan 7021, 7030
USA, Florida 1289, 7882-7883
C81555 2369
C81778 2370
C82059 1898
Ca.81555 7885
Co 8021 1899
Co-85004 8726
CoA89085 1274
Coc.671 8725
CoC.90063 7885
CP81-1384 7032
LHo83-153 4631
Ni 9 2368
NiF 8 2367
PS77-1553 4630
ROC 16 7031
SP79-1011 1275
SP79-2312 1276
SP79-2313 1277
SP79-6134 1278
SP79-6192 1279
drought resistance, cultivars 1902, 3789, 7021
energy requirements 4703
enzymes
adenosinetriphosphatase 3794, 7022, 8729
amylases 3798, 5318, 7022, 7038, 8729
carboxy-lyases 8729
catalase 6150, 8729
β-fructofuranosidase 7022, 7038, 7887, 8729
glucosidases 3036
IAA oxidase 3794
malate dehydrogenase 8729
oxidoreductases 3035
peroxidases 5318, 8729
phosphoenolpyruvate carboxylase 3035
phosphoric monoester hydrolases 7022
phosphotransferases 1288
ribonucleases 8729
(s)-2-hydroxy-acid oxidase 6150
sucrose synthase 7887
superoxide dismutase 7037
equipment, harvesters 4636
ethanol production 7023
fertilizers
boron 6119
calcium 5305
crop residues 2364
farmyard manure 507, 3795, 8722
filter cake 1268, 8722
iron, foliar application 3795
legume husks 507
magnesium 5305
manganese 7026
nitrogen 337, 500, 506-507, 1266, 1894, 1896, 2366, 3785-3786, 4609, 4611, 4619, 4632, 5297, 5301, 5303-5304, 5320, 6107, 6111-6112, 7025-7026, 7880, 7912, 8547, 8711-8713, 8719, 8721

Sugarcane *cont.*
fertilizers *cont.*
nitrogen *cont.*
application date 2365, 6113-6114, 6117, 7020
foliar application 2364, 3795, 5299
requirements 4615
sources 6115-6117, 7027, 8720
NPK fertilizers 8722
oilseed cakes 8722
phosphorus 1896, 2366, 3793, 4616, 4619, 4632, 8547, 8721
sources 4617-4618
potassium 2366, 4619, 4632, 5300, 6118, 8547, 8721
application date 5304
foliar application 2364
rare earth elements, foliar application 3794
rice straw 507
sugarcane byproducts 1267
sugarcane trash 507
sulphur 5305, 7881
trace elements 5305, 8721
zinc 1914, 5305, 6119
foliar application 3795
field experimentation, experimental design 1903
flooding 7042-7043
fungicides, carbendazim 500
growth regulators
abscisic acid 5318
Atonik 7877
chlormequat 503, 3791, 7022
2,4-D 509, 5319
ethephon 503, 1265, 2364, 4613, 7022, 7040
gibberellins 4613
glyphosate 7022, 8718
IAA 7040, 7887, 8717
kinetin 4613, 5319, 7040
LAB-173711 5318
NAA 5305
paclobutrazol 4612
TIBA 7040
triacontanol 7022
triapenthenol 4612
harvesting
damage 5302
machinery 1895, 5302, 7878
mechanization 7024
harvesting date 501, 1896, 4614, 6109, 6113, 7018, 7023, 8725
harvesting losses 3033, 5302, 7024, 7879
heat shock 1288
herbicides
alachlor 1283, 3796, 7033
asulam 1285
atrazine 1280-1281, 1283-1285, 3796, 7033-7034
cyanazine 1285
2,4-D 1283-1285, 3797, 7033
dalapon 1285
dicamba 1280, 1284
diuron 1285, 3797
glyphosate 1283, 3796, 4614, 7033-7034, 7886, 8718
hexazinone 1282
ioxynil 1285
isoproturon 7034
MCPA 3797
metribuzin 1280, 1285
oxyfluorfen 8728
paraquat 1283-1285, 3796-3797, 7033
simazine 3797
trifluralin 1281
India, Andhra Pradesh 7015
insecticides
chlorpyrifos 1286
dimethoate 1286
endosulfan 1286
malathion 1286
parathion-methyl 1286
intercropping 7017
Brassica juncea 2361, 3805
carrots 2363
Cicer arietinum 2361, 3785, 5297, 8709-8710
Coriandrum sativum 2363
Cyamopsis tetragonoloba 3032

Sugarcane *cont.*
intercropping *cont.*
groundnuts 3784, 5326, 7875
kohlrabi 2363
Lens culinaris 2361
maize 2361, 3805
okras 2363
onions 2363, 8708
peas 8710
Phaseolus vulgaris 337, 2363, 8710
potatoes 3805, 8547
radishes 2363
reviews 2362, 7016, 8709
soyabeans 3785, 5297, 6106, 8709
sunflowers 3784, 5326
Vigna mungo 3784-3785, 5297, 5326, 8709
Vigna radiata 3784, 5326
Vigna unguiculata 2363, 3032
wheat 2361, 3805
irrigation 3787, 4610, 5301, 7021, 7025, 8715-8716
cultivars 3789
factory effluents 4620
furrow irrigation 3790
requirements 8714
trickle irrigation 3790, 7099
irrigation scheduling 3788, 4611, 8712-8713
land use, South Africa 8707
leaf area, measurement 3038
leaf area index 6122
leaf water potential 2371
leaves
accumulation, phosphorus 4617
composition
amino acids 4608
calcium 8729
chlorophyll 8729
elements 1901, 7036
manganese 8729
nitrogen 4608, 4620, 8720
nucleic acids 8729
phosphorus 4620
potassium 4620
proteins 4608
silicon 1901
sucrose 7038
sugars 4608, 7038
trace elements 7036
enzymes 3035, 3798, 7037-7038, 8729
hydraulic conductivity 2371
metabolism, lipids 7037
mitochondria 3037
senescence 7037
metabolism
carbohydrates 1941
heat shock proteins 1288
sucrose 1287
mineral nutrition
calcium 8729
foliar diagnosis 7036
iron, deficiency 7036
manganese 8729
mineral uptake
calcium 6121
iron 7892
magnesium 6121
nitrogen 6121, 8712
phosphorus 4617, 6121
potassium 6121
mulches 2363-2364
crop residues 3797, 5300, 6108
multiple cropping, reviews 8709
nitrogen fixation, reviews 7894
pests
Bandicota bengalensis 5314
Chilo infuscatellus 502
Helicotylenchus 5315
Hoplolaimus 5315
Melanaspis glomerata 1286
Meloidogyne 5315
Pratylenchus 5315
Rattus rattus 5314
rodents 7035
Tylenchorhynchus 5315
photorespiration 6150
photosynthesis
carbon pathways 6150
fertilizers 3794

Sugarcane *cont.*
- photosynthesis *cont.*
  - mineral nutrition 8729
- plant competition, weeds 1290, 8727
- plant density 504, 1894, 3786, 5303, 6107
- planting, methods 5301
- planting date 501-502, 3805, 4608, 5298, 7893, 8708, 8711
- planting depth 2364, 7018
- planting methods 7019, 8712-8713
- planting stock 504, 7875
  - production 7880
- quality
  - crop husbandry 2360
  - cultivars 7028
  - herbicides 4614
- ratooning 500, 503-505, 507, 1896, 7876, 8717
  - reviews 6110
- root systems
  - cultivars 508
  - ratooning 508
- rooting depth
  - cultivars 508
  - ratooning 508
- roots
  - anatomy, cultivars 1900
  - cutting 1266
  - growth
    - cultivars 508
    - ratooning 508
  - hydraulic conductivity, cultivars 1900
- rotations
  - *Brassica juncea* 3805
  - potatoes 3805
- salinity 7892-7893
- seed quality 1264
- seedlings
  - composition
    - nitrogen 7880
    - potassium 7880
- sets
  - sprouting 5317, 7039
    - herbicides 7886
    - salinity 7893
    - temperature 7893
  - treatment
    - coatings 5317
    - growth regulators 2364
    - lime 2364
    - soaking 5317
- soil
  - carbon 507
  - zinc 1914
- soil amendments 6123
  - filter cake 1268, 5306
  - glucose 503
  - gypsum 4621
  - lime 503, 4621
- soil fertility 6123
- soil inoculation
  - *Azospirillum* 5320
  - *Azospirillum brasilense* 6111
  - *Azotobacter chroococcum* 6111-6112
- soil pH, cultivars 1902
- soil physical properties 6123
- soil temperature 7893
- spacing 1894, 3786, 4609, 6122, 7020, 7875-7876
  - cultivars 5299
- stems
  - anatomy 5316
  - composition
    - sucrose 5316, 7038
    - sugars 2360, 7038, 8718
  - osmoregulation 5316
  - phloem 5316
  - xylem 5316
- storage, deterioration 5302
- symbiosis
  - *Acetobacter diazotrophicus* 7894
  - *Herbaspirillum rubrisubalbicans* 7894
  - *Herbaspirillum seropedicae* 7894
  - *Pseudomonas rubrisubalbicans* 7894
- taxonomy 6124
- temperature 1288, 3035
  - heat sums 4635
- tillering 6122
  - growth regulators 4612
- tissue culture 7041

Sugarcane *cont.*
- tissue culture *cont.*
  - *Azospirillum lipoferum* 5319
  - bud culture 7039
  - callus, weight, estimation 3799
  - cryopreservation 7891
  - culture media 7039
  - enzymes 5319
  - growth regulators 5319
  - protoplasts, techniques 7889
  - regenerative ability 3800
  - somaclonal variation 8730
  - somatic embryogenesis 4634
- translocation
  - carbohydrates 1941
  - herbicides 7886
  - sucrose 5316
- vegetative propagation 3792, 7040
  - micropropagation 7890
- water relations, measurement 6911
- water requirements 8708
- water stress 2371, 3037
  - cultivars 7021
- water use, growth stages 3788
- water use efficiency 3790, 8713
- waterlogging 7042-7043
- weed control
  - herbicides 1280-1281, 1283-1285, 3796-3797, 7033-7034, 8728
  - manual weed control 1280, 1283-1285, 3796, 7034, 8728
  - mulching 7034
- weeds
  - *Amaranthus viridis* 7034
  - *Chenopodium album* 7033
  - *Crotalaria* 1281
  - *Cyperus rotundus* 7033-7034
  - *Digitaria* 1281
  - *Digitaria sanguinalis* 7033
  - *Eleusine indica* 7034
  - *Mikania cordata* 8727
  - *Panicum maximum* 1281
  - *Panicum repens* 7034
  - *Paspalum urvillei* 1281
  - *Trianthema monogyna* 7033
  - *Trianthema portulacastrum* 7034
- yield components 8730
  - cultivars 1269
- yield correlations 6115
- yield forecasting, models 3801, 7895
- yields
  - estimation 7030
  - trends, India 3803

Sunflowers
- accumulation
  - starch 1315
  - sucrose 1315
  - sugars 1315
- agricultural meteorology 2987
  - Europe 599
- agroforestry, India, Tamil Nadu 6133
- air pollution, nitrogen dioxide 5085
- allelopathy 1196, 1333
- carbon dioxide enrichment 6184
- catch crops 2372
- cell culture
  - culture media 458
  - growth regulators 6960
  - protoplasts 458, 6960
  - regeneration 458, 6960
- cell cultures
  - growth regulators 453
  - metabolism 453
  - somatic embryogenesis 6960
- cell membranes
  - metabolism
    - fatty acids, reviews 5351
    - proton pump 453
  - plasma membranes
    - lipids 8663
    - water stress 8663
  - temperature 5351
- chemical composition
  - amino acids 6061
  - anthocyanins 1848
  - ash 8787
  - boron 6162
  - calcium 6161, 8787
  - chlorophyll 6061
  - copper 6162
  - fibre 8787

Sunflowers *cont.*
- chemical composition *cont.*
  - iron 6162
  - lipids 8787
  - magnesium 6161, 8787
  - manganese 6162
  - molybdenum 6162
  - nitrogen 451, 6161
  - phosphorus 451, 6161, 8787
  - potassium 6161, 8787
  - proteins 6061, 8787
  - saponins 6958
  - sodium 6161, 8787
  - starch 6061
  - sucrose 4560
  - sugars 6061
  - terpenoids 7812
  - zinc 6162, 7934
- chloroplasts
  - enzymes 8658
  - membranes, calcium 6955
  - metabolism, nitrogen 5342
  - thylakoids
    - metabolism 6063
    - water stress 6063
- climate 8798
- climatic change, Czechoslovakia 3848
- crop residues
  - burning 449
  - incorporation 449
- cultivars
  - Brazil, Rio Grande do Sul 2337
  - Europe 452
  - France 4557, 7918
  - India, Maharashtra 6948, 8650
  - Khar'kovskii-49 6954
  - Pakistan 452
  - Romania 3741
  - Spain 1217, 3740
  - Turkey 452
  - UK 2982
  - USA, North Dakota 447
  - KO30A 1064
  - Kobe 1064
- cultivation 3898
  - chiselling 449
  - crop residues, incorporation 6225
  - discing 520, 3808
  - harrowing 520
  - no-tillage 7800
  - ploughing 449, 520, 3808
  - rotary cultivation 449
- damage, responses 5348
- development, reviews 1222
- diseases, *Diaporthe helianthi* 1221
- drainage systems 8654
- drought resistance 1850, 6947
- enzymes
  - adenosinetriphosphatase 453
  - carboxy-lyases 8658
  - catalase 6150
  - glucose-6-phosphate dehydrogenase 7817
  - glutamate-ammonia ligase 5268, 7925
  - glutamate dehydrogenase 5268
  - hydrolases 5263
  - nitrate reductase 7925
  - nitrite reductase 7925
  - oxidoreductases 453-454, 7817
  - ribulose-bisphosphate carboxylase 4560
  - (s)-2-hydroxy-acid oxidase 6150
  - sucrose synthase 5262
  - superoxide dismutase 5085
  - transferases 4560
- evapotranspiration, estimation 7070
- fertilizers
  - boron 2386, 8656
  - crop residues 6144
  - farmyard manure 554, 3739, 6144, 7807
  - nitrogen 451, 520, 1216, 1321, 1844, 3737, 3739, 4556, 5259, 6052, 6055-6058, 6144, 6161-6162, 6949-6950, 6952-6953, 7804-7806, 8651, 8655-8656
  - NPK fertilizers 554, 7807
  - phosphorus 451, 520, 1216, 3739, 5259, 6052, 6057-6058, 6144, 6953, 7806, 8656
  - sources 6963

Sunflowers *cont.*
fertilizers *cont.*
potassium 3739, 6052, 6058, 6144, 8656
sewage sludge 1506
straw 6144
field experimentation, border effects 3092
flowers
composition, saponins 6958
removal 4559
fungicides
captafol 1224
carbendazim 1224
copper oxychloride 1845
thiram 1845
growth 2744
models 459-460, 7809, 7815
growth analysis 6060
growth period 447, 2982
growth regulators
abscisic acid 3743, 5265, 6172, 7811, 8174
ACC 1847
Agrostemin 5261
ancymidol 8782
ascorbic acid 6951
aspirin 5263
BAS111W 6172, 8782
benzyladenine 5267, 6960
chlormequat 5260, 6061
cimectacarb 8782
cytokinins 8732
2,4-D 453, 6960
ethephon 457, 1847, 1849, 6951, 7813
ethylene 457, 1849, 6957
forchlorfenuron 8732
gibberellins 5267, 6960
IAA 1847, 2336
maleic hydrazide 6951
mepiquat 8782
NAA 5260, 6951, 6960
paclobutrazol 8782
phenolic compounds 5261
polyamines 6957, 7813
prohexadione 8782
tetcyclacis 8782
TIBA 2336
triacontanol 5261
triapenthenol 8782
triazoles 6172
harvesting date 4563, 7803
harvesting losses 3049, 7803
herbicides
adjuvants 1945
alachlor 1219
clethodim 1220
2,4-D 242
dicamba 242
fenoxaprop 1220
fluazifop 1220, 2815
fluorchloridone 1219
glyphosate 1945
haloxyfop 1220
linuron 1219
methabenzthiazuron 1219
metobromuron 1219
metolachlor 1219
oxadiazon 1218-1219
oxyfluorfen 1219
pendimethalin 1218-1219, 2815, 8165
quizalofop 1220
residual effects 242
toxicity 1945
trifluralin 1944
hybrid seed production 1215
hypocotyls
growth 1846
light 1846
turgor 1846
intercropping
Amaranthus cruentus 6947
Cajanus cajan 448, 4184
cassava 1211
Cicer arietinum 1844
groundnuts 1212, 2815, 4643, 5019, 5780, 6688-6689
sorghum 4642
soyabeans 6946
sugarcane 3784, 5326

Sunflowers *cont.*
irrigation 523, 3737, 4641, 5259, 6056, 6950, 8653, 8655
factory effluents 5549
furrow irrigation 6054
saline water 7800, 8652, 8748
sodic water 8748
irrigation scheduling 6055
land use 573, 1344
leaf area 5264
estimation 461
plant density 1214
leaf area index 6053
leaf water potential 7810
soil compaction 6065
water stress 4562
leaves
composition
chlorophyll 3742
elements 5344
nitrogen 6065
proline 2338
proteins 2338, 5263
sucrose 5262
terpenoids 6959
damage, air pollution 5085
development 3742
enzymes 5262-5263, 8658
growth
leaf water potential 7810
soil compaction 6065
soil water content 7810
metabolism
nitrogen 7925
proteins 5263
number 8660
removal 4555, 4560
senescence 3742
stomatal resistance 6184
water content, estimation 564
water relations 6184
light 8760
use efficiency 8790
light intensity 2986
reviews 1223
metabolism
carotenoids 2986
chlorophyll 6063
ethylene 457, 6957
fatty acids 6956
growth regulators 1847, 3743, 5265
nitrogen 7925
polyamines 6957, 7813
proteins 1925, 6063
sterols 4561
mineral nutrition
boron 453, 2386-2387
cadmium, toxicity 2338
copper, toxicity 2338
iron, deficiency 7808
lead, toxicity 2338
models 7809
nitrogen 6161-6162
zinc, toxicity 2338
mineral uptake
boron 6059
calcium 6059
copper 6059
iron 3067, 6059
magnesium 6059
manganese 6059
nitrogen 451, 1321, 3739, 6056, 6059, 6948, 7804
phosphorus 451, 3739, 6056, 6059, 6948, 6963, 7804
potassium 3739, 6056, 6059, 6948, 7804
zinc 6059
mulches
plastic film 6054
straw 6054
multiple cropping
groundnuts 4641, 7903
rice 513
sesame 7903
sorghum 4640
nutation, models 6062
pests
Cochylis hospes 4559
Corvus splendens 1845
nematodes 5285

Sunflowers *cont.*
photoperiod, reviews 1223
photorespiration 6150, 8760
photosynthesis 1315, 4560
calcium 6955
carbon dioxide 6184, 8657
carbon pathways 6150, 8664
diurnal variation 5262
electron transfer 3742
gas exchange 8760
isotope fractionation 5344
light harvesting complexes 6955
photosystem I 3742
soil compaction 6065
water stress 4564, 6962
plant competition 6947
weeds 8799
plant density 447, 1213-1215, 1844, 2983, 3737, 6053, 6946, 6953, 7801, 7804
plant height, growth regulators 5260
plant physiology, reviews 455
pollination 7075
honeybees 8661
pollution
cadmium 2338
copper 2338
lead 2338
zinc 2338
precipitation 554
production possibilities, Pakistan, Pakistan Punjab 7092
protoplasts, regenerative ability 458
relay cropping, rice 513
remote sensing 7957
respiration 8760
root systems, models 8664
rooting depth 447
roots 8665
accumulation
cadmium 2338
copper 2338
lead 2338
zinc 2338
anatomy 4671
cell membranes, proton pump 7808
composition
boron 6059
calcium 6059
copper 3840, 6059
herbicide residues 1944
iron 3840, 6059
magnesium 6059
manganese 6059
nitrogen 6059
phosphorus 6059
potassium 3840, 6059, 7814
sodium 7814
zinc 3840, 6059
depth 6060
growth 3840, 6060, 8628
salinity 7814
growth regulators 1847
initiation, growth regulators 2336
ion transport 7814
metabolism, iron 7808
rotations 8798
barley 3808
maize 3808
wheat 3808, 3898
salinity 3082, 7814
seed development 8659
seed germination
allelopathy 1333
factory effluents 5549
maturity stage 4563
metabolism
fatty acids 6956
proteins 2985
seed size 462, 5264
seed treatment 1224
sowing date 450
storage 1224, 6964, 7818
temperature 7072
water relations 7072
seed inoculation, *Bacillus megaterium* 6963
seed maturation 4563
seed production 450, 1215
seed quality 1215
maturity stage 4563

Sunflowers *cont.*
- seed size 462
- seed treatment
  - fungicides 1224, 1845
  - hardening 1224
  - neem extracts 1224
- seed weight 1215
- seedling emergence
  - soil temperature 932
  - soil water content 932
  - sowing depth 932
- seedlings
  - growth
    - factory effluents 5549
    - seed size 462
- seeds
  - composition
    - fatty acids 3833, 6991
    - linoleic acid 4563
    - lipids 3832, 6991
    - oils 450, 462, 4559, 5257, 5260, 6052, 6055-6056, 6058, 6948, 7802, 7806, 8659
    - oleic acid 4563
    - phospholipids 3833
    - proteins 456, 2985, 4563, 4588, 6056, 6948, 7806
  - embryos
    - development 5265
    - metabolism, growth regulators 5265
  - enzymes 7817
  - filling 6064
  - imbibition 2985
  - mechanical properties, friction 4574
  - metabolism, proteins 2985
  - moisture content 8659
  - storage
    - containers 1224, 6964, 7818
    - controlled atmospheres 7817
    - relative humidity 7818
    - seed treatment 1224
    - temperature 7818
- shading 4560
- shoots
  - accumulation
    - cadmium 2338
    - copper 2338
    - lead 2338
    - zinc 2338
  - composition
    - boron 6059
    - calcium 6059
    - copper 6059
    - iron 6059
    - magnesium 6059
    - manganese 6059
    - nitrogen 6059
    - phosphorus 6059
    - potassium 6059
    - zinc 6059
  - mechanical properties
    - flexibility 5266
    - torsional strength 5266
- soil
  - calcium 3840
  - erosion, models 2744
- soil amendments, factory effluents 7917
- soil compaction 932, 6065, 8628
- soil fertility 8628
- soil inoculation, *Azospirillum* 7807
- soil physical properties 932
- soil temperature 932, 3738, 8628
- soil types, peat soils 7077
- soil water 8174, 8628
- soil water content 554, 932, 7810
  - models 7816
- solar radiation, use efficiency 6961
- sowing date 450, 2981-2982, 3737-3738, 5257-5258, 6948, 7802, 7907, 8651
- sowing depth 932
- sowing rates 1213-1214, 6689, 8650
- spacing 2983, 6949, 6952, 8653
- stomatal resistance
  - growth regulators 8174
  - water stress 4562, 4564
- temperature 454, 1848
  - heat sums 2337, 6060
  - reviews 1223

Sunflowers *cont.*
- tissue culture
  - growth regulators 457, 1849, 6957, 7813
  - metabolic inhibitors 457
  - metabolism, polyamines 7813
  - regeneration 1849, 5267, 8662
  - regenerative ability 7813
- translocation
  - boron 6059
  - calcium 6059
  - copper 6059
  - growth regulators 1847, 2336, 5265
    - models 7811
  - iron 6059
  - magnesium 6059
  - manganese 6059
  - nitrogen 6059
  - phosphorus 6059
  - potassium 6059
  - source sink relations 4560, 6064
  - zinc 6059
- transpiration 5344
  - pollution 2338
  - water stress 4564
- water relations
  - pollution 2338
  - soil compaction 6065
- water requirements 2337, 7070
- water stress 4562, 4564, 6063, 8663
  - cultivars 6064
  - growth stages 5268, 6962
  - reviews 1223
- water supply 1344
- water use 447, 523, 3082, 7907
- water use efficiency 1850, 3082, 6947, 7907
- weed control
  - cultural control 2815, 8329
  - herbicides 1219-1220, 2815, 8165, 8329
  - integrated control 1218
  - manual weed control 2815
  - physical control 1218
  - reviews 8799
- weeds
  - *Cynodon dactylon* 1220
  - *Sorghum halepense* 8329
  - *Trianthema portulacastrum* 1218
- yield components 450, 3737, 4558, 5258
  - growth regulators 5260
  - reviews 1222
- yield correlations 6052
  - reviews 1222
- yield forecasting, models 2987
- yields, models 7815-7816

Sunn hemp (*see Crotalaria juncea*)

Swaziland, groundnuts, cultivars 8384

Swede rape (*see* Rape)

Sweden
- *Brassica campestris* 3762
- farming systems 7091
- rape 3762
  - cultivars 1233, 7822
- reports, Jordbrukstekniska Institutet 8815
- rye, cultivars 7235
- *Sinapis alba* 3762
- triticale, cultivars 7235

Swedes
- chemical composition
  - copper 8542
  - iron 8542
  - manganese 8542
  - zinc 8542
- cultivars
  - Romania 7706
  - Russia 4444
  - Mar 4445
- diseases, viruses 7706
- fertilizers, trace elements 3814
- leaves
  - composition
    - selenium 3987
    - sulphur 3987
- mineral uptake, selenium 3987
- roots
  - composition
    - selenium 3987
    - sulphur 3987
- soil amendments, gypsum 3987

Sweet potatoes
- altitude 1815
- conferences 5372
- cultivars
  - Brazil 1159
  - China 5213
  - India
    - Kerala 6005
    - Madhya Pradesh 3688
  - Beniotome 3689
  - Blesbok 420
  - Hernandez 8595
  - Liqun No. 6 5213
  - Nan Shu-1 6878
  - Su Shu-1 6878
- cultivation
  - depth 2950, 6006
  - minimum tillage 6007
- enzymes
  - cytochrome-c oxidase 2951
  - peptide hydrolases 1813-1814
  - peroxidases 1812
- fertilizers
  - nitrogen 419, 2952, 4497-4499, 6010
  - potassium 419, 4498-4499, 6010
- field experimentation, experimental design 7737
- flooding, growth stages 4503
- flowering 6879
- growth regulators, benzyladenine 4502
- Guatemala 8592
- hydroponics, spacing 4495
- intercropping, coconuts 6005
- irrigation 4496, 6008
- leaves
  - damage 7733
  - enzymes 1812
  - epidermis 7733
  - stomatal resistance 6008
- light 3691
- light intensity 6011
- mineral nutrition 3690
  - books 6215
  - nitrogen 4499
  - potassium 4499
- mineral uptake
  - nitrogen 6132
  - phosphorus 6132
  - potassium 6132
- mulches, plastic film 6007
- multiple cropping 6132
- mycorrhizas 5215
- Peru 8593
- petioles
  - composition
    - calcium 2308-2309
    - iron 2308-2309
    - magnesium 2308-2309
    - manganese 2308-2309
    - nitrogen 2308
    - phosphorus 2308-2309
    - potassium 2309
- photoperiod 3691
- photosynthesis, gas exchange 7733
- plant density 419, 4498, 6010
- planting stock
  - cuttings 1160
  - sprouting 8594
  - storage 4493
- pollen germination 6879
- pollution, arsenic 8277
- roots
  - composition
    - nitrogen 5215
    - phosphorus 5215
  - curing 8594
  - differentiation 1160
  - enzymes 1812
  - growth 1160
- seed set 6879
- seedlings
  - growing media 2308-2309
  - production 2308-2309
- shading 6011
- shoots
  - composition
    - nitrogen 5215
    - phosphorus 5215
  - cutting, growth stages 6009
- soil, arsenic 8277
- soil amendments, lime 2308

Sweet potatoes *cont.*
soil inoculation
Acetobacter diazotrophicus 5215
Glomus clarum 5215
Klebsiella 5215
soil physical properties 3690
soil water 2950
spacing 419, 4498, 6010
tissue culture 4502, 6886
culture media 4501, 7735
embryos 7735
explants 7736
growth regulators 4502
organogenesis 4501
transpiration 6008
transplanting, growing media 2308-2309
tubers
composition
arsenic 8277
β-carotene 419
carotenoids 6010
dry matter 6006
nitrogen 5215
phosphorus 5215
proteins 419, 4497, 6010
starch 419, 4497, 6006, 6008, 6010
sucrose 4497
sugars 419, 4496-4497, 4500, 6006, 6010
development 3690
differentiation 1160
disorders 2950
enzymes 1812, 2951
epidermis, composition, terpenoids 7734
growth 1160
quality 4496
cooking quality 6010
sprouts, enzymes 1813-1814
storage 4500
vegetative propagation 4502
cuttings 4494, 6006
tissue culture 1159
water stress 2952, 5214
water supply 2950
weed control
herbicides 6007
manual weed control 6007
yield correlations 4498
yields, stability 1815
Sweetcorn (*see also* Maize)
accumulation
nitrogen 4101
phosphorus 4101
potassium 4101
cell cultures, growth, determination 830
cells, ultrastructure 829
cover crops
peas 2651
Trifolium incarnatum 2651
Trifolium repens 4886
Vicia villosa 2651
cultivars
USA, Tennessee 7377
Tanok-2 6476
diseases, *Setosphaeria turcica* 2133
enzymes, amylases 829
fertilizers
nitrogen 3336, 4101, 4886
phosphorus 4101
potassium 4101
grain
composition
amino acids 2652, 4101
carbohydrates 2652
flavour compounds 2652
starch 2652
sugars 2652, 4101, 4887
maturation 2652
quality, harvesting date 4887
growth regulators
benzyladenine 1537
casein hydrolysate 1537
2,4-D 1537
harvesting date 4887
herbicides
ametryn 1943
glyphosate 1943
linuron 1943
paraquat 1943
Sweetcorn *cont.*
herbicides *cont.*
sethoxydim 1943
intercropping 4886
irrigation
saline water 8748
sodic water 8748
leaves
composition, nitrogen 3336
removal 2133
mineral nutrition, nitrogen 3336
mineral uptake
nitrogen 4101
phosphorus 4101
potassium 4101
models 181
phloem, composition, nitrogen 3336
plant competition, weeds 828
roots
anatomy 8209
differentiation 8209
growth 8209
xylem 8209
seed germination
enzymes 829
seed treatment 3337, 7376
seed treatment
fungicides 7376
priming 7376
sodium hypochlorite 7376
solvents 3337
seedling emergence, seed treatment 7376
seeds
composition
starch 180
sugars 180
endosperm, development 180
enzymes 829
vigour, seed treatment 3337
shading 180
soil, nitrogen 3336
tissue culture
flowering 1537
growth regulators 1537
translocation, photosynthates 180
weeds
Chenopodium album 828
Digitaria sanguinalis 828
Eriochloa villosa 1943
Panicum miliaceum 1943
xylem, composition, nitrogen 3336
Switzerland
air pollution, ozone 5353
Amaranthus, production possibilities 7871
farming systems, organic farming 7157
maize, cultivars 3283
potatoes
crop husbandry 7709
cultivars 2933
seed tubers, production 8580
sorghum, sweet sorghum, cultivars 7452
wheat, cultivars 7157
Syria
Cicer arietinum, cultivars 6806
reports, International Center for Agricultural Research in the Dry Areas 3107, 8816
Vicia faba, cultivars 3543-3544, 5820
Taiwan
farming systems, sustainability 7090
groundnuts, agricultural meteorology 7961
maize
agricultural meteorology 7961
cultivars 8154
reports, Council of Agriculture 8817
soyabeans, agricultural meteorology 7961
sugarcane, cultivars 7021, 7030
Tanias (*see Xanthosoma)*
Tanzania
farming systems 4684
groundnuts 8361
Linum usitatissimum, cultivars 8644
safflower, cultivars 6943
wheat, cultivars 6268
Taro (*see Colocasia esculenta)*
Taxonomy, books 6213
Techniques
agricultural meteorology, analysis 568
air pollution, sulphur dioxide 7082
Techniques *cont.*
biomass production, estimation 4637
cell culture 7003
cell cultures
growth, determination 830
growth regulators, abscisic acid, estimation 3668
cell walls
composition, determination 4789
physical properties 7932
plasmodesmata, isolation 178
thickness, measurement 6475
cells
endocytosis 6190
ion transport, determination 4858
mitochondria, electric potential, determination 1798
organelles, isolation 5818
cereals, cultivars, identification 699
chemical composition 8787
cadmium, determination 709, 3435
chloride, determination 5672
chlorophyll, determination 2248
DNA, determination 1339
elements 8207
determination 565
galactomannans, determination 2892
growth regulators, determination 1892
pectins, determination 3023
phenolic compounds, determination 2499
proteins
determination 6555
heat shock proteins, determination 4364
zinc, determination 3435
chlorophyll
fluorescence
measurement 790
temperature 7946
climatic change, simulation 8088
cultivars
classification 562
identification 41, 928, 4346
barley 6408-6409
Cicer arietinum 6813
cotton 6901
Phaseolus vulgaris 4352
wheat 6408
drought resistance, evaluation 700
enzymes
isoenzymes 1637
nitrate reductase, assays 1418
oxidoreductases 2833
evapotranspiration 825
estimation 1930, 1932, 7493
Brassica juncea 4586
fertilizers
nitrogen, requirements 151, 435, 5950, 7936
requirements, determination 7058
sulphur, requirements 1116
field experimentation
experimental design 83, 7218
statistical analysis 2403, 3093, 7218
flowers, anthers, composition, elements, determination 5932
frost resistance, estimation 3749
grain
aleurone cells, enzymes 6393
composition
IAA, determination 4081
proteins, determination 4177
development, measurement 177
endosperm, enzymes 6393
enzymes, assays 5445
moisture content, determination 7221
quality
determination 3335
maize 3324
wheat 8078
shape, determination 8208
groundnuts, maturity stage, determination 5039
growth, measurement 177, 5817
growth regulators
chlormequat, determination 3721
cytokinins, analysis 8590
growth stages, classification 8064
harvest index, determination 7506
isotopes, reviews 1941

Techniques *cont.*
leaf area
determination 7949
estimation 461, 1442, 4193
sesame 3733
measurement 7945
image processing 4490
sugarcane 3038
leaf area index
determination 7214
estimation 1763
wheat 3208
leaf water potential, measurement 3567
leaves
anatomy 7949
canopy, temperature, determination 4688
composition
chlorophyll 435
determination 2916
measurement 3853
elements, determination 258
magnesium, analysis 5671
nitrogen
analysis 5671
estimation 435, 6577
potassium, analysis 5671
sulphur, determination 1116
osmoregulation, measurement 7217
osmotic pressure, determination 2869
stomatal resistance, measurement 1536
surface water, determination 7556
water content
determination 7870
estimation 564
light
determination 7101
interception, measurement 6712
maize
maturity stage, estimation 4885
pollen germination, assessment 8186
maturity stage, estimation, sugarbeet 2294
mineral nutrition
foliar diagnosis 2235
nitrogen, barley 123
sulphur, foliar diagnosis 1116
mineral uptake, potassium 5515
mycorrhizas, infection, measurement 6473
nitrogen fixation
estimation 4267, 8507
measurement 7650
nodules
classification 4350
composition, glycoproteins, determination 2191
ultrastructure, soyabeans 3505
photosynthesis 825, 1316, 2404, 7923
electron transfer, measurement 3852
estimation 2194
gas exchange, measurement 2649, 3850, 6332, 7080
measurement 5359-5360
photosystem II, estimation 4069
plant anatomy 2821
plant density, determination 7219
plant height, measurement 7651
pollen, composition, elements, determination 5932
potatoes, tubers, maturity stage, determination 6001
protoplasts, isolation 1483, 3957
remote sensing 570-571
respiration, measurement 5477
roots
cell division 6474
composition, elements, determination 3207
density, determination 5478
distribution 4034
determination 5478
soil compaction 6181
growth 3851
estimation 2131
measurement 8087
ion transport 5515
determination 4858
length
estimation 2131

Techniques *cont.*
roots *cont.*
length *cont.*
measurement 3331, 3539, 7945
maize 805
morphology 2065
plastids, isolation 6844
xylem, staining 4096
seed germination 3775
seed testing 2402
seed germination 4676
viability 5362
seeds
composition
glucosinolates, determination 2992, 8676
gossypol, determination 5227
IAA, determination 4081
lectins, determination 1942
oils, determination 4247
phospholipids 7645
proteins, determination 4177, 4247
vicine 2844
identification 7081
moisture content, determination 2822, 3333-3334, 3518, 4161, 4247, 4292, 6085, 7221
volume, determination 3553
soil, potassium, determination 1600
solar radiation, interception, determination 5994
statistical analysis 3980
stems
anatomy 2966
diameter, measurement 177
mechanical properties, measurement 4575
sap flow, measurement 8354
stomatal movement 1030
temperature 825
heat sums, determination 7367
tissue culture 413, 1576
protoplasts, sugarcane 7889
translocation
determination 4679
photosynthates 2828, 6289
transpiration, measurement 896
tubers
composition, reducing sugars, determination 3673
electrical properties, determination 4480
water relations, measurement 6911
water stress 4562
water use efficiency, determination 6306
yield correlations 8147
yield forecasting 4099
dendrochronology 6333
yields, determination 7374
Temperature
forecasting, models 4675
heat sums
estimation, models 7965
India, Karnataka 2393
Poland 4204
models 3103
plant physiology 548
reviews 3087
Teosinte (*see Zea mexicana*)
Thailand
groundnuts, cultivars 6701
Hibiscus cannabinus, cultivars 4544
maize, cultivars 6436, 6448
Tissue culture
books 1364, 6216
conferences 4695
photosynthesis, reviews 5187
Tobacco
accumulation
starch 1315
sucrose 1315
sugars 1315
agricultural meteorology, Europe 599
air pollution, ozone 559, 1259, 5356
apical meristems
composition
carbohydrates 5293
nitrogen 5293
cell culture 2357, 7003
culture media 3028, 8789

Tobacco *cont.*
cell culture *cont.*
protoplasts 3027, 6998
salinity 6099
cell cultures
composition, terpenoids 5294
enzymes 490, 492, 1889, 3026, 3028, 3767, 4598, 5292, 5987
gene expression 2357
growth 1257, 6095
growth regulators 1890, 5294, 6095, 7426
herbicides 3068
metabolic inhibitors 6095
metabolism 1257, 1889
alkaloids 5290
lipids 3766
phytoalexins 3766-3767
polysaccharides 7935
proteins 3767, 6099
pectins 3023
respiration 1257
salinity 7869
cell division 2356, 3026-3027, 5288, 6670
growth regulators 1883
cell membranes
growth regulators 1890
ion transport 1890
plasma membranes
composition, glycoproteins 1888
electric potential 4596
enzymes 6094
growth regulators 6094
ion transport 4596, 8695
proteins 7869
salinity 7869
tonoplast, ion transport 2353
cell walls
composition, polysaccharides 2063
metabolism, glycosides 1880
physical properties 2063
plasmodesmata, ultrastructure 496
cells
composition, proteins 6670
enzymes 5292
growth 1880
models 1257
growth regulators 6092
metabolism 3016
glycosides 1880
microtubules 1885, 1889, 3016, 3025-3026, 6097, 6457, 6670
mitochondria
enzymes 2358
respiration 2358, 6091
temperature 2358
respiration 6092
temperature 1889
transport, enzymes 5292
uptake, glutathione 4597
vacuoles
accumulation, zinc 3015
enzymes 489
chemical composition
carbohydrates 5293
elements 7005
growth regulators, determination 1892
iron 6157
nitrogen 5293
phenolic compounds 7076
proteins 3773, 6457
zinc 7934
chlorophyll, fluorescence 3011, 6098, 8762
chloroplasts
composition
carotenoids 6997
chlorophyll 6997
enzymes 3017
metabolism
ATP 5049
nitrogen 5342
ultrastructure 6997
climate 8798
conferences 1958
cultivars
C8 1878
C9 1878
CSC300 2351
KB101 6089

Tobacco *cont.*
cultivars *cont.*
Long Yan-3 6995
Lynd 5287
NC729 1877
VA403 6993
VA405 6994
curing 3009
methods 7849
temperature 3010
terpenoids 7865
diseases
cucumber mosaic cucumovirus 6996
Phytophthora cryptogea 487
potato Y potyvirus 6996
Pseudomonas syringae 3021
tobacco mosaic tobamovirus 5289
drought resistance, cultivars 6098
enzymes
adenosinetriphosphatase 6094
alcohol dehydrogenase 491
catalase 6150
glucose-6-phosphate dehydrogenase 6999
glutamate-ammonia ligase 5291
hydro-lyases 3769
hydrolases 489, 1259, 5292
IAA oxidase 494, 6998
isomerases 3767
ligases 492
methyltransferases 3017
nitrate reductase 2350, 3028, 4599-4600
nitrite reductase 3018, 4599
oxidoreductases 2358, 3012, 3014, 3019
oxygenases 4598
peroxidases 494, 3014, 6998, 7859
phenylalanine ammonia-lyase 3767
phosphoenolpyruvate carboxylase 488
phosphoric monoester hydrolases 3012
phosphotransferases 490, 1889, 3026, 3769, 5987
ribulose-bisphosphate carboxylase 3012, 3017, 3769, 4595, 4657, 6166
(s)-2-hydroxy-acid oxidase 6150
sucrose synthase 3012
superoxide dismutase 4604, 7001
transferases 490
evapotranspiration 3770
fertilizers
boron 2350
composts 7855
farmyard manure 7850, 8696
magnesium 2350, 8696
nitrogen 7852-7853
sources 7850-7851, 8694
use efficiency 1875
NPK fertilizers 1876, 7854, 8696
phosphorus 7852-7853
potassium 7853
sources 1306
sewage sludge 1253
sulphur 1306
zinc 2350
flooding 7868
flowering
induction 5293
temperature 5293
flowers
composition
proteins 1884
trypsin inhibitors 8699
development 1884
gynoecium
composition
calcium 4601
calmodulin 4601
styles
anatomy 488
enzymes 488
photosynthesis 488
gene expression 2357
enzymes 3018, 4599, 4604
light 3018
green crop fractionation 1252
green manures
Crotalaria juncea 7855
sesame 7855

Tobacco *cont.*
green manures *cont.*
Vigna unguiculata 7855
growth regulators
abscisic acid 7867
ACC 1890, 3022
auxins 1882-1883, 3771, 3774, 7001, 8701
benzyladenine 1258, 2357, 4603, 7867, 8697
binding proteins 3020
brassinosteroids 3829, 7426
catecholamines 494
cytokinins 493, 3771-3772, 5294, 6095, 8697
binding proteins 3020
2,4-D 494, 2357, 7001
dihydrozeatin 3771-3772, 8697
dihydrozeatin riboside 3772
ethylene 494, 1881, 3021-3022, 7858
gibberellins 3771, 7867
IAA 494, 1891, 6094
IBA 1258, 1891-1892
kinetin 1891, 3774, 7004
NAA 4603, 7004
polyamines 6173
salicylic acid 6092
tetracosanoic acid 1252
thidiazuron 4603
triacontanol 1252
zeatin 3771-3772, 8697
zeatin riboside 3771-3772, 8697
harvesting
mechanization 8693
methods 3008, 7848
harvesting date 7848, 7861-7862
herbicides
diphenamid 3765, 7857
fluazifop 3765
fluchloralin 7857
glyphosate 3068, 3768
napropamide 3765
oxyfluorfen 7857
sethoxydim 3765
intercropping
Cajanus cajan 4593
groundnuts 4593
sesame 4593
soyabeans 4593
Vigna unguiculata 4593
irrigation 1875, 3007, 4594
irrigation requirements 3770
Korea Republic, reviews 7846
leaf water potential 6098
leaves
composition 7862
alkaloids 7861
ash 7861
boron 7332, 7856
cadmium 1253, 1887
calcium 7856
chloride 7332, 7855, 7861
chlorophyll 2350
citric acid 3009
copper 1253, 1887, 7856
elements 5344
fatty acids 3009
lead 1887
magnesium 7856
manganese 1253, 1887, 7856
molybdenum 7856
nickel 1253, 1887
nicotine 1876, 2350, 3008-3009, 7850, 7853, 7855
nitrogen 3008-3009, 7332, 7860-7861
organic acids 7854
oxalic acid 3009
phosphorus 3008
potassium 7332, 7856
proteins 1252, 3020
reducing sugars 3009, 7853
starch 3009
sugars 3009, 7853, 7861
sulphur 7332
terpenoids 7865
trypsin inhibitors 8699
volatile compounds 3024
zinc 1253, 1887, 7332, 7856
enzymes 1259, 2350, 3012, 3019, 5291, 6999

Tobacco *cont.*
leaves *cont.*
exudates, resins 7863-7864
growth regulators 1890, 8697
metabolism
ethylene 3021-3022
growth regulators 3772
herbicides 3768
pesticide residues 2352
physical properties 3009
quality 7853, 7855, 7861, 8694
removal 3008
senescence 8697
determination 7860
growth regulators 3771-3772
stomata 2354
stomatal resistance 2354
surface water, determination 7556
translocation, proteins 6093
water content, determination 7870
light 3018
light intensity 4604
lodging, cultivars 6086
metabolic regulators, calcium 1881
metabolism
alkaloids 5290
ATP, reviews 5049
carbohydrates 3016
glycosides 1880
growth regulators 1890
herbicides 3068, 3768
lipids 3766
nitrates 538
phosphorylation 5288, 7858
phytoalexins 3766-3767
proteins 2356, 3767, 5288, 6998
reviews 5289
terpenoids 7865
mineral nutrition 8696
aluminium 3064
copper 3022
manganese, toxicity 3013
nitrogen 5293, 7000, 8697
sources 3028
sodium 3014
sulphur 3014
mineral uptake 8696
calcium 1890
manganese 3013
nitrogen 538, 1875
trace elements 3300
mitochondria, metabolism, ATP 5049
mulches
grasses 1876
plastic film 1876
sorghum 1876
mycorrhizas 3578
nematicides, 1,3-dichloropropene 6090
Nicotiana plumbaginifolia 4599-4600, 5288
Nicotiana rustica 3771-3772, 8697
pests
Meloidogyne arenaria 6090
Meloidogyne incognita 6090
Myzus persicae 1879
Spodoptera litura 1879
photoperiod 6999, 8700
photorespiration 6150
photosynthesis 488, 1315, 3012, 3019, 3769, 4595, 6088
carbon pathways 6150
isotope fractionation 5344
light intensity 4604
mineral nutrition 3014
photosystem I 6098
photosystem II 6098
temperature 4604
water stress 6098
phytoalexins 3766
phytotoxins 8762
pollen
development 1886
ultrastructure 495, 1885
pollen germination 2355
pollen tubes
composition, proteins 6096
growth 2355
pollution
heavy metals 1253
radionuclides 8702

Tobacco *cont.*
protoplasts
cell division 3027
enzymes 6998
growth regulators 1882, 4602
ion transport 8695
metabolism, proteins 6998
microtubules 3025
regeneration 4602
remote sensing 7957
respiration 2358, 6091
mineral nutrition 3014
root exudates 3300
roots, cell walls, chemical properties 3013
rotations 8798
cotton 6090
fallow 6090
groundnuts 6090
maize 6090
sorghum 6090
soyabeans 6090
salinity 3773, 7005
salt tolerance 3773
seed germination 3775
fertilizers 1876
mulches 1876
row covers 1876
seedlings
enzymes 4598
production 6087, 7851-7852
irrigation 3007
storage 7847
seeds, embryo sac, isolation, techniques 8698
soil amendments
dolomite 7332
industrial wastes 7332
lime 7332
magnesian limestone 7856
soil inoculation
Azotobacter 7852
Azotobacter chroococcum 7851
soil pH 6157
soil types 7854
spacing 4593-4594
stems
enzymes 491, 7859
mechanical properties 1256
models 1255
taxonomy 8703
temperature 2358, 4604, 5293
tissue culture
composition, terpenoids 5294
culture media 7000
electric potential 7866
enzymes 7001
explants 7004
flowering 8700
flowering 1891
flowers 1258
growth regulators 493-494, 1258, 1891, 3774, 4603, 5294, 7001, 7004, 7867, 8701
organogenesis 3774, 7000, 7002, 7866, 8701
photosynthesis 5187
pollen 2355
regenerative ability 7004, 8702
salinity 3773
senescence 7001
somatic embryogenesis 4603
translocation
nitrates 538
proteins 487
transpiration 2354, 5344
transplanting, seedling age 7847
tropisms, phototropism 1254
water management 3007
water stress, cultivars 6098
water use 3770
weed control
herbicides 3765, 7857
manual weed control 7857
Togo
cotton, farming systems 2314
fertilizers 2379
Toria (*see Brassica campestris* var. *toria*)
Translocation
calcium 1918
determination, techniques 4679
Translocation *cont.*
enzymes 1924
iron 6159
models 2385
pyruvic acid 5339
reviews 536
source sink relations 2385
books 1962, 3113
reviews 1317
xylem, models 5340
Transpiration
light, models 5338
measurement, apparatus 7944
models 2124
Trigonella foenum-graecum
enzymes
galactosidases 7687
transferases 7687
fertilizers, nitrogen 3121
intercropping, wheat 3121
leaves
epidermis, mutagens 5142
stomata, mutagens 5142
metabolism, polysaccharides 7687
seed development
enzymes 7687
metabolism 7687
seeds
endosperm
enzymes 7687
metabolism, polysaccharides 7687
Triticale
cells, mitochondria, enzymes 3454
chemical composition
nitrogen 8073
pigments 2397
chloroplasts, enzymes 3454
cover crops 518
cultivars
Australia, New South Wales 1456
Austria 5709-5710
Brazil, São Paulo 2070
classification 270
Czechoslovakia 1607
Denmark 8758
India, Uttar Pradesh 4002
Italy 961, 2069, 2105, 6631, 8109
Netherlands 4000
Poland 7239
reviews 7235
Romania 96, 7484
Russia, Siberia 6353
Sweden 7235
USA, Alabama 4968, 8303
Abacus 2530
Almo 3222
Antuco INIA 8110
Banjo 3221
Brio 3220, 6354
Gabo 3223
Meridal 6355
Nemchinovskii-1 3224
Pika 4004
Sunland 4806
cultivation 4000
cutting 717
cutting date 3449
diseases, *Gaeumannomyces graminis* 6633
drought 8073
dry matter accumulation 4198
enzymes
adenosinetriphosphatase 3454
amylases 53, 2732
catalase 4807
inhibitors 53
nitrate reductase 266, 4807
fertilizers
nitrogen 57, 2732, 4805, 7484
NPK fertilizers 2728, 4001
phosphorus 2007
requirements 3810
sources 1455, 5481
flooding 8111
flowering, induction 57
frost resistance, cultivars 2532
fungicides
benomyl 4005
propiconazole 4005
triadimenol 4005
Triticale *cont.*
grain
composition
amino acids 4805
cadmium 2740
carbon, isotopes 2071
lead 2740
nitrogen 4805
development, growth regulators 4808
enzymes 2732
filling, growth regulators 4808
mechanical properties 7241
moisture content 7240
preharvest sprouting, fertilizers 2732
weight 4805
growth 4000
growth regulators
benzyladenine 2531
chlormequat 4005, 4805
2,4-D 2531, 3225
IAA 2531
kinetin 2531, 3225
maleic hydrazide 4808
growth stages 7491
classification 268
harvest index 1456, 3921
harvesting, damage 7240
harvesting date 7241
harvesting losses 7241
cultivars 4003
intercropping, rye 7243
irradiation, ultraviolet radiation 2397
leaf water potential 8111
leaves
composition
nitrogen 4002
phosphorus 4002
potassium 4002
lodging 3449, 4001
mineral nutrition
aluminium 3066
nitrogen 266, 2732, 3933, 8073
mineral uptake, nitrogen 266
nitrogen fixation 6407
photoperiod 57
photosynthesis 3921
flooding 8111
isotope fractionation 2071
light harvesting complexes 532
plant competition, rye 7243
reclamation 1609
respiration 4198, 8305
roots
aeration 5462
cation exchange capacity 3066
hypoxia 5462
length 3066
rotations
barley 1601
cereals 2728
fodder beet 2728
grasses 2728
legumes 2728
potatoes 1601, 2728
salinity 8111
seed certification 7238
seed development, growth regulators 4808
seed dormancy 2732
seed germination 1610, 4809
moisture content 7240
seed injury 7240
storage 972, 7240, 7244
water stress 4006
seed production
economics 7242
sowing rates 7242
seed quality 7238-7239
seed testing 1610, 4809
seed treatment
fungicides 4005
pyridoxine 4807
seed weight 4001
seedling emergence
moisture content 7240
seed injury 7240
storage 7240
seedlings
composition, chlorophyll 4807
enzymes 4807
growth 4808

Triticale *cont.*
seedlings *cont.*
growth *cont.*
temperature 3896
vigour 4006
water stress 4006
seeds
composition, proteins 270
moisture content 7240
storage
containers 718, 972
relative humidity 718
temperature 718, 972, 7244
viability, storage 7244
soil compaction 1609
soil fertility 1609
soil properties 1607
sowing date 57, 714, 958, 4001-4002, 6245
cultivars 3896
sowing methods, broadcasting 715
sowing rates 57, 714-716, 4001, 6352, 7242
spacing 715
spikes
composition, carbon, isotopes 2071
mechanical properties 7241
stomatal resistance, flooding 8111
temperature 57, 3896, 4198
tillering 4001
tissue culture
embryo culture 8067
regeneration 8067
regenerative ability 2531, 3225
translocation, photosynthates 3921
transpiration, flooding 8111
vernalization 6245
water stress 4006
waterlogging 5462
yield components 1456, 1609, 3921, 7238, 8073
sowing rates 6352
Tropics
soil amendments 2377
sowing methods, direct sowing 2377
undersowing 2377
Tropisms
geotropism, calcium, reviews 4669
growth regulators, reviews 546
Turkey, sunflowers, cultivars 452
Turnip rape (*see* Rape)
Turnips
diseases, *Pseudomonas cichorii* 4447
enzymes
adenosinetriphosphatase 5161
lactate dehydrogenase 412
fertilizers
nitrogen, application methods 7913
sewage sludge 531
irrigation 4443
mineral nutrition, books 6215
mineral uptake, nitrogen 8769
multiple cropping
barley 1907
wheat 1907
photosynthesis
carbon dioxide 2919
light intensity 2919
phytoalexins 4447
pollution
caesium 7078
radionuclides 7078
roots, mitochondria, enzymes 5161
seed germination
models 7707, 8541
thermodynamics 8541
seeds, composition, trypsin inhibitors 4446
sowing date 7906
transpiration
carbon dioxide 2919
light intensity 2919
water use 4443
Tylosema esculentum
flowers, anthers, development 2897
pollination 2897
Uganda, *Phaseolus vulgaris,* cultivars 5829
UK
agricultural meteorology, books 3118
books, crop husbandry 8826
farming systems, organic farming 6276
UK *cont.*
fuel crops, production possibilities 5321
land use, remote sensing 1950
Miscanthus, production possibilities 5321
peas, cultivars 1710
Phaseolus vulgaris, cultivars 1710
potatoes, seed tubers, production 1767
reports
AFRC Institute of Plant Science Research and John Innes Institute 1954
Institute of Hydrology 7099
Morley Research Centre 584
Sugar Beet Research and Education Committee 1356, 2414
sugarbeet, cultivars 1125, 3623
sunflowers, cultivars 2982
wheat
cultivars 4740
diseases, organic farming 6276
pests, organic farming 6276
weeds, organic farming 6276
Ukraine
sugarbeet
climate 395
cultivars 4433
wheat, cultivars 2456
USA
Alabama
barley, cultivars 8303
cotton, cultivars 7768, 8606
maize, cultivars 8161
oats, cultivars 8303
rye, cultivars 8303
triticale, cultivars 8303
wheat, cultivars 8303
Alaska, barley, cultivars 108
Arkansas
cotton, cultivars 5223, 6899
oats, cultivars 8091
climatic change, models 577-579, 581
Florida
Colocasia esculenta, crop husbandry 7898
land use, remote sensing 3100
rice
crop husbandry 7898
cultivars 2141
soyabeans, cultivars 5760
sugarcane
crop husbandry 7898
cultivars 1289, 7882-7883
Georgia
maize, cultivars 6434-6435
rape, cultivars 1234
green manures 3041
Illinois
maize
cultivars 1508
yields 1508
soyabeans, cultivars 1618, 4984-4985
Indiana, soyabeans, cultivars 4984
Iowa, climatic change 3862
Kansas
climatic change 3862
soyabeans, cultivars 4984-4985
Kentucky, soyabeans, cultivars 1001
maize
agricultural meteorology 7095
climatic change 6329
cultivars 1313
yields, trends, models 827
Michigan, potatoes, cultivars 407
Minnesota
sorghum, sweet sorghum, cultivars 1587
soyabeans, cultivars 1618, 4209, 7516
Missouri
climatic change 3862
soyabeans, cultivars 4984-4985
Montana
barley, cultivars 77
wheat, cultivars 77
Nebraska
barley, cultivars 108
climatic change 3862
New York, farming systems, sustainability 575
North Dakota, sunflowers, cultivars 447
Ohio
barley, cultivars 5335
USA *cont.*
Ohio *cont.*
maize, cultivars 5335
soyabeans, cultivars 5335
wheat
cultivars 5335
Triticum spelta, cultivars 5335
Oklahoma, *Hibiscus cannabinus,* cultivars 7780
Oregon, wheat, cultivars 7218
Pennsylvania
climate 171
farming systems, sustainability 575
reports
Louisiana Agricultural Experiment Stations 6205
North Central Weed Science Society 3876
rice
agricultural meteorology 7095
yield forecasting 927
seed production 3050
sorghum, cultivars 1313
soyabeans, cultivars 1313, 1653
Tennessee, sweetcorn, cultivars 7377
Texas
cotton, cultivars 8605
groundnuts, cultivars 4279
Virginia
farming systems, sustainability 574
groundnuts, cultivars 4280
maize, cropping systems 574
Washington, wheat, cultivars 7162
wheat
agricultural meteorology 7095
climatic change 6329
cultivars 1399
Wisconsin
potatoes, cultivars 2932
soyabeans, cultivars 977
USSR
peas, cultivars 3528
potatoes, crop husbandry 7708
Uzbekistan
cotton, cultivars 6900
rice, crop husbandry, books 5384
Venezuela, maize, cultivars 2602
Vernonia anthelmintica, seeds, composition, sterols 6988
Vernonia galamensis
seeds
composition
fatty acids 6083
sterols 3031
Vicia
nodulation 4423
roots, soil compaction 8793
seeds
composition, proteins 2850
testas, anatomy 8440
soil compaction 8793
taxonomy 2850, 6745
Vicia faba
accumulation
starch 1315
sucrose 1315
sugars 1315
air pollution, sulphur dioxide 2846
carbon dioxide enrichment 4330
catch crops 2372
cell membranes
electrical properties 3546
enzymes 3546
growth regulators 1054
ion transport 1054, 8434
plasma membranes 1054
electric potential 5064
ion transport 5064
calcium 4326
cells
polysomes 4328
vacuoles
enzymes 5068
pH 7011-7012
chemical composition
amino acids 8426
boron 335
calcium 335
carotenoids 8426
chlorophyll 8426
cobalt 335

Vicia faba cont.
chemical composition *cont.*
crude protein 335
DNA, determination 1339
dry matter 335
elements 8426
galactose 2900
glycosides 2900
iron 335
magnesium 335
manganese 335
nitrogen 1048, 1055, 2847
phytates 2900
saponins 2900
trace elements 8426
chloroplasts
composition, proteins 5828, 6741
electron transfer 7622
enzymes 4327, 8436
fluorescence 5070
light 5070
membranes 5072
proteins 5828, 6741
metabolism
fatty acids 7622
lipids 7622
photophosphorylation 7622
temperature 5072
continuous cropping 2838, 5324
cover crops 6829
cultivars 4323
Austria 2840
Cyprus 1049
Denmark 2840, 8758
Germany 2840
Poland 6739
Syria 3543-3544, 5820
Ada 6737
Talia 379
Tibo 4325
cultivation 4323
deep tillage 3042
no-tillage 3042
subsoiling 7617, 7624
damage, responses 5348
desiccants, glufosinate-ammonia 1301
diseases 4294
Botrytis fabae 5825
Verticillium dahliae 5324
drought, Poland 7628
dry matter accumulation 7619
enzymes
acid phosphatase 374
adenosinetriphosphatase 1703, 3546
amylases 4327
catechol oxidase 333, 5825
hydrolases 334
nitrogenase 1055, 2229, 2847
oxidoreductases 8437
oxygenases 334, 5067
peroxidases 5068, 5825
phosphoenolpyruvate carboxylase 2223, 2225, 3547
phosphotransferases 1053, 4327, 8436
RNA polymerase 4328, 8436
sucrose synthase 2224, 5826
transferases 5826
triacylglycerol lipase 374
trypsin inhibitors 2900, 5913
evapotranspiration 5820, 5822
fertilizers
boron 5240
farmyard manure 3542
magnesium 4323
manganese 4323
foliar application 6739
nitrogen 2902, 4323
application methods 1048
sources 3542
use efficiency 2841
phosphorus 332, 4323, 5823, 7620-7621
potassium 4323, 5073
poultry manure 3542
sulphur 332, 1704
requirements 1116
trace elements 8426
foliar application 5063, 7616
sources 5063
zinc, foliar application 7621
flowering, temperature 2227

Vicia faba cont.
flowers
abscission 2226
removal 2227
fungicides, benomyl 5819
gene expression, light 8441
green manures 7044
growth 4323
water stress 3551
growth regulators
abscisic acid 3540-3541, 5827, 7625, 7627, 8438
auxins 3540-3541, 3546, 7627
benzyladenine 3550, 7646
brassinosteroids 1703
chlormequat 4324, 5069, 7626-7627
coumarin 6740
2,4-D 1054
forchlorfenuron 7646
fusicoccin 1054, 3548
gibberellins 1703, 3541, 3550, 7627
IAA 1054, 1703, 3550, 3950, 4329
NAA 1054
paclobutrazol 4324
thidiazuron 7646
harvesting losses 1047
herbicides
adjuvants 6280
bentazone 1050-1051
carbetamide 1050
chlorpropham 1051
dinoseb 1707
fenuron 1051
glyphosate 8428, 8433
methabenzthiazuron 2847
sethoxydim 1050
simazine 1050-1051
surfactants 6280
terbuthylazine 1051, 8426-8427
terbutryn 1051, 8426-8427
toxicity 1707
insecticides
cyfluthrin 2843
cypermethrin 2843
fenvalerate 2843
fluvalinate 2843
intercropping
onions 7616
peas 1297
irrigation 3541, 5820, 6736, 7617-7618, 7624, 8427
furrow irrigation 5823
sprinkler irrigation 5823
trickle irrigation 5821-5822
leaf area 8439
water stress 336
leaf water potential 3551
water stress 336
leaves
composition
cadmium 5066
chlorophyll 2846
lead 5066
proteins 2228
sulphur 1704
determination 1116
enzymes 333, 1703, 2225, 4327, 5825
light 4327
metabolism
chlorophyll 1322
phytoalexins 5825
plant pigments 1322
proteins 1322
starch 4327
osmoregulation 3551
pH 7011
reflectance 2846
senescence 1322
stomata
enzymes 3547
guard cells 8434
cell membranes 3546
enzymes 5826
stomatal movement 2225, 8434
growth regulators 1054
stomatal resistance 3551
amino acids 7625
growth regulators 7625
measurement 1536
transmittance 2846
turgor 3551

Vicia faba cont.
leaves *cont.*
water content 3551
light 3548, 7646
blue light 1053, 5070-5071, 8435, 8441
interception 3544, 5820
water stress 336
red light 5070
light intensity 4328, 7622, 8436
metabolic regulators, calmodulin 1053
metabolism
aldehydes 5067
ascorbic acid 5068
carbohydrates 5826
chlorophyll 1322
enzymes 2223
fatty acids 334, 7622
growth regulators 4329
hydrogen peroxide 5068
lipids 7622
phytoalexins 5825
plant pigments 1322
proteins 1322
proton pump 1053
starch 4327
mineral nutrition
boron 3550
cadmium, toxicity 5066
lead, toxicity 5066
manganese 3550, 6739
nitrogen, sources 2222
sulphur 1704
foliar diagnosis 1116
zinc 3550
mineral uptake
cadmium 5066
chloride 6743
lead 5066
nitrogen 2902, 5823, 6829
phosphorus 1052, 5823
potassium 5823, 6743
sodium 6743
sulphur 1116
mulches, plastic film 8427
mycorrhizas 4424
nitrogen fixation 374, 1056, 2902, 6829, 7044
amino acids 2229
cultivars 3543
herbicides 1707, 2847
mineral nutrition 2222
salinity 1055
nodulation 374, 1056
herbicides 1707, 2847
mineral nutrition 2222
salinity 1055
nodules
composition
carbohydrates 1055
leghaemoglobin 1055
proteins 1055
enzymes 374, 2847
pests
Aphis craccivora 2843
Sitona lineatus 8429
pH 2639
photosynthesis 1315
carbon dioxide 3817, 7011-7012
carbon pathways 7011-7012
growth stages 2227
light harvesting complexes 532, 8431-8432
light intensity 7011-7012
oxygen 5824
photosystem I 1322
photosystem II 1322, 3545, 8432
plant competition, weeds 2842
plant density 5820, 6735, 7618-7619
pods
abscission 2226, 3540, 7626
composition
cadmium 5066
lead 5066
removal 2227
pollination 7826
pollution
cadmium 5066
lead 5066
precipitation 1705, 6742
production possibilities, Poland 1705

***Vicia faba** cont.*
protoplasts
enzymes 1053
light 1053, 5071, 8435
metabolic inhibitors 5071
metabolism 1053
photosynthesis 5824
proton pump 8435
respiration 5824
uptake, herbicides 8433
respiration, oxygen 5824
roots
anatomy 4671
biomass 3042
composition
cadmium 5066
lead 5066
distribution 4034
soil compaction 6181
growth 2639
soil compaction 3084
ion transport 2639
respiration 2639
size 3084
water transfer 4330
xylem, staining 4096
rotations 2838, 5324
barley 2839
rape 2839
sugarbeet 2839
wheat 2839
salinity 1055, 1706, 5069, 5073, 6743
salt tolerance 6743
seed anatomy 5065
seed development 6738
seed germination
growth regulators 4329
metabolism, thiamin 380
salinity 1706
seed treatment 1047
water relations 3549
seed inoculation, *Rhizobium* 2841
seed quality 1057, 1753
seed treatment
coating 8429
growth regulators 7626-7627
insecticides 8429
seedlings
carbon dioxide enrichment 3552
growth, salinity 1706
mitochondria, enzymes 8437
seeds
composition
calcium 335
crude protein 332
cystine 332
fatty acids 5914
galactose 2900
glycosides 2845, 2900
lipids 5914
manganese 335
methionine 332
molybdenum 335
nitrogen 332, 2902
phosphorus 335
phytates 2900
polyamines 5915
proteins 335, 1753, 6739
saponins 2900
vicine 2844
cotyledons, enzymes 2224
damage 1047
enzymes 334, 5067
imbibition 3549
metabolism
aldehydes 5067
thiamin 380
osmoregulation 6738
testas, anatomy 8440
translocation 6738
photosynthates 5065, 7623
volume, determination 3553
shoots
composition
calcium 3550
iron 3550
manganese 3550
nitrogen 3550
phosphorus 3550
potassium 3550
sugars 3550

***Vicia faba** cont.*
shoots *cont.*
composition *cont.*
zinc 3550
soil, phenolic compounds 2839
soil compaction 3084, 6181
soil inoculation
Glomus intraradices 4424
Glomus mosseae 4424
Rhizobium leguminosarum 1056
strains 4331
soil pH 1052, 5240
soil properties 3042
soil temperature 6829
soil types, peat soils 7077
soil water content 4294
solar radiation, use efficiency 336
sowing date 315, 2840, 3540, 5819, 7617, 7620, 7624
sowing rates 3543-3544, 7618
spacing 5820
stems
composition
aspartic acid 1704
cadmium 5066
lead 5066
sulphur 1704
light 8441
stomata
enzymes 2223
growth regulators 5827
guard cells
growth regulators 8438
ion transport 8438
pH 8438
light 8441
stomatal movement 8435
growth regulators 3548
light 3548
temperature 1705, 2227, 5072, 6742
tissue culture, explants, sources 7646
translocation
growth regulators 4329
photosynthates 1703, 7623
source sink relations 1703
transpiration 3071
tropisms, geotropism, growth regulators 3950
vernalization 2227
water relations, measurement 2237
water stress 336, 2227, 3551
carbon dioxide 4330
water use 3071, 5822, 7624
water use efficiency 3071, 5820, 6829
weed control
cultivation 2842
herbicides 1050, 2842, 8427-8428
manual weed control 7620, 8427
mulches 8427
weeds
Alopecurus myosuroides 1050
Chenopodium album 2842
Orobanche crenata 8428, 8430
yield correlations 2227, 3543, 6736, 6742

Vicia sativa
chemical composition, nitrogen 750
cultivation, methods 7222
enzymes
lyases 2848
oxygenases 2848
fertilizers
farmyard manure 7222
nitrogen 7222
phosphorus 7222
potassium 7222
herbicides
cyanazine 2376
diuron 2376
linuron 2376
prometryn 2376
intercropping, oats 7222
irradiation, gamma radiation 3843
metabolism
phosphorylation 1058
proteins 1058
mineral uptake
calcium 750
copper 750
iron 750, 3067
magnesium 750
phosphorus 750

***Vicia sativa** cont.*
nodules
senescence 2849
ultrastructure 2849
pollution
cadmium 750, 3843
cobalt 3843
lead 750
zinc 750
rotations, barley 2533
seed germination
enzymes 2848
temperature 6744
seed production, Russia 5074
seed quality 4321
seed weight 8442
seeds
cleaning 4321
composition, polyamines 1059
temperature 6744
soil types 750
sowing depth 8442
translocation 750
Vietnam, *Psophocarpus tetragonolobus*, production possibilities 377

Vigna
seeds, composition, proteins 1724
taxonomy 1724

Vigna angularis
cell walls
growth 5865
growth regulators 5865
metabolism, glucans 5865
chemical composition
fatty acids 5866
lipids 5866
sterols 5866
enzymes, peroxidases 4379
epicotyls
growth 7662
growth regulators 7662
flowering date 1730
growth regulators
auxins 5865
ethylene 4379
growth inhibitors 7662
IAA 5865, 7662
leaves, enzymes 4379
metabolism, ureides 4378
roots
electric potential 1731
growth 1731
seed germination
metabolism
thiamin 380
ureides 4378
seedlings
epicotyls
growth 5865
growth regulators 5865
seeds
composition
elements 1327
fatty acids 5914
lipids 5914
proteins 4420
metabolism, thiamin 380
sowing date 1730

Vigna mungo
agroforestry, India, Tamil Nadu 6133
allelopathy
Cyperus rotundus 1089
Echinochloa colonum 1089
Harpullia imbricata 5873
chemical composition
amino acids 5873
nitrogen 5108
phosphorus 5108
proteins 1088, 5873
chlorophyll, fluorescence 1751
cropping systems, India, Uttar Pradesh 8808
cultivars
India, Kerala 7663
Jawahar Urdbean 2 4381
drought resistance, cultivars 1088
enzymes
amylases 5078
catechol oxidase 5109
nitrate reductase 7664
nitrogenase 5874

***Vigna mungo** cont.*
enzymes *cont.*
peptide hydrolases 5873-5874
phosphoric monoester hydrolases 4658
phosphotransferases 4658
ribonucleases 5874
fertilizers
cattle slurry, residual effects 1548
farmyard manure 5675
nitrogen 4383, 5297, 5675, 5704, 8479
application date 4383, 7664
residual effects 1548
NPK fertilizers 7053
residual effects 1548
phosphorus 2879, 4380, 4383, 5108, 5144, 5675, 6788, 7664
sulphur 6788
fungicides, zineb 4380
growth regulators, IAA 4382
herbicides
alachlor 5871
fluchloralin 5871
methabenzthiazuron 5871
pendimethalin 3616, 5871
India, Madhya Pradesh 7050
insecticides, endosulfan 4380
intercropping 8741
Cajanus cajan 1732
cotton 8737
Cymbopogon winterianus 3614
groundnuts 3513
Guizotia abyssinica 7829
maize 4036
Panicum sumatrense 5704
rice 5867, 6823, 8738
Ricinus communis 8745
sesame 3806
sorghum 3411, 5675
sugarcane 3784, 5297, 5326, 8709
irradiation, ultraviolet radiation 1314
irrigation 8520, 8745
growth stages 6787
saline water 7909
leaf water potential 8477
leaves
senescence 5101
stomata 5101
stomatal resistance 8477
metabolic inhibitors 4382
metabolism
carbohydrates 4658
starch 5078
sugars 5078
mineral nutrition
boron, deficiency 7691
iron 8478
molybdenum 8478
mineral uptake
calcium 7053
magnesium 7053
nitrogen 7066
phosphorus 6788
sulphur 6788
multiple cropping 7052
rice 513, 7053
nitrogen cycle 7066
nodulation 5144, 7664, 8479
fungicides 5868
insecticides 5868
mineral nutrition 8478
nodules
composition
ATP 5874
leghaemoblobin 5874
nucleic acids 5874
proteins 5874
sugars 5874
enzymes 5874
number 6823
senescence 5874
pests, *Hoplolaimus seinhorsti* 7083
photosynthesis
irradiation 1314
light intensity 8477
photosystem II 1314
relative humidity 8477
temperature 1751
plant competition, weeds 1750, 3616
plant density 2879, 8475

***Vigna mungo** cont.*
pods, enzymes 5078
precipitation 6786
relay cropping, rice 513, 1732
roots, growth, metabolic inhibitors 4382
rotations 5297
maize 6130
seed germination 1733
allelopathins 5873
allelopathy 1089
industrial wastes 558
seed treatment 5869, 8462
soil moisture content 8462
seed inoculation, *Rhizobium* 4383, 5108, 7664, 8479
seed treatment
cattle manure 8462
fungicides 5868
industrial wastes 558
insecticides 5868-5869
phosphorus 8462
soaking 1733, 8462
seedling emergence
soil water content 7905
sowing depth 7905
seedlings
enzymes 5109
growth
allelopathins 5873
allelopathy 1089
industrial wastes 558
seeds
composition
ascorbic acid 1733
carotenoids 1733
citric acid 1733
crude protein 1733
fatty acids 5914
lipids 5914
nitrogen 4383
phosphorus 4383
sterols 6825
sugars 1733
embryos
composition
nucleic acids 5872
proteins 5872
starch 5872
metabolism
nucleic acids 5872
proteins 5872
starch 5872
enzymes 5078
moisture content 8525
physical properties 8525
soil, nitrogen 7066
soil depth 7689
soil inoculation, *Azospirillum* 5675
soil water content 7905
sowing date 1087, 6786, 7689, 8520
sowing depth 7905
sowing methods, broadcasting 8738
sowing rates 5870
spacing 2879, 5870, 8475
taxonomy 2903
transpiration 8477
water stress 1088
water use 6787
water use efficiency 6787, 8741
weed control
cultivation 784
herbicides 3616, 5871
manual weed control 784, 1750, 4380, 5871
yield components 5144, 8475-8476
yield correlations 8475
yields, estimation 3589
Vigna radiata
accumulation
calcium 6132
magnesium 6132
nitrogen 6132, 7690
phosphorus 6132
potassium 6132
agroforestry 378, 515
India, Tamil Nadu 6133
air pollution, sulphur dioxide 5668
allelopathy 2248
antibodies, penicillins 6777
cell cultures, growth regulators 4360

***Vigna radiata** cont.*
cell membranes
composition, proteins 3816
ion transport 1720
temperature, reviews 5351
tonoplast, enzymes 350, 1721, 2870
cell walls, growth 2247
cells
microfilaments 4361
microtubules 4361
chemical composition
calcium 8458
chlorophyll, determination 2248
heat shock proteins 3576
lead 8796
nitrogen 2872, 6770
phosphorus 6770, 8458
potassium 6770
proteins, heat shock proteins, determination 4364
chlorophyll, fluorescence 1751
cropping systems, India, Uttar Pradesh 8808
cultivars
genotype environment interaction 8460
India
Karnataka 3590
Madhya Pradesh 5846
Japan 2873
Putland 6771
Taiwan Green 8461
Xia Li Ming-317 8239
Zhong Lü-2 8239
cultivation
straw disposal 5845
straw incorporation 5845
dry matter distribution 3573
enzymes
adenosinetriphosphatase 350, 1723, 2870, 5095, 5161
aminotransferases 6777
glutamate-ammonia ligase 6777
glutamate dehydrogenase 6777
hydro-lyases 8774
hydrogenases 5858
hydrolases 5094
IAA oxidase 3575
lyases 3021
nitrate reductase 4359, 5856, 5858
nitrogenase 5845, 5858, 6777
oxidoreductases 5854-5855
peptide hydrolases 3570, 5852
peroxidases 3574-3575
phosphoric monoester hydrolases 4658, 7655
phosphotransferases 4358, 4658
pyrophosphatases 1721
transferases 5853
evaporation 5350
farming systems, Mali 4638
fertilizers
boron, foliar application 5089
farmyard manure 6770
iron, residual effects 6765
manganese, foliar application 6764
molybdenum 3569, 5092, 6769
foliar application 5089
nitrogen 514, 2872, 5093, 5876, 6047, 6770, 7051, 7061
application date 4384, 5848
foliar application 5848, 6764
residual effects 5325, 6140, 6765, 8240
use efficiency 754, 4356
NPK fertilizers 7053
phosphorus 2872, 3578, 4384, 5093, 5144, 5876, 6078, 6767, 6769-6770, 6773, 7061, 7652-7653, 8456, 8458
application date 8754
foliar application 6768, 8459
requirements 8754
residual effects 794, 6765
sources 8457, 8459
use efficiency 4356, 5849
potassium
foliar application 6764
use efficiency 4356
requirements 6766
residual effects 6078

Vigna radiata *cont.*
fertilizers *cont.*
seaweeds 1080
sulphur 5092
residual effects 794
zinc, residual effects 6765
flowering date 1078, 1730
green manures, residual effects 6140
growth regulators
benzyladenine 351, 2871, 4359-4360, 4362, 5857
chlormequat 5096, 5856
chrysanthemic acid 1082
cytokinins 4360
binding proteins 5097
2,4-D 351, 4360
epibrassinolide 3575
ethylene 1720, 3585
inhibitors 4357
gibberellins 4359
IAA 3575, 4359
IBA 351, 5098, 5857
kinetin 5094
NAA 351, 2871, 4360, 6764
phenolic compounds 4359
TIBA 3575, 6764
harvesting date 7656
herbicides
butachlor 3572
fluchloralin 3572, 7653
glyphosate 2248
isoproturon 3572
pendimethalin 3572, 3616, 7653
thiobencarb 3572
hypocotyls
binding proteins 6774
enzymes 1723, 3021, 5853
India, Madhya Pradesh 7050
insecticides
carbofuran 5093
DDT 566
monocrotophos 5093
phorate 5093
intercropping
Acacia nilotica var. *cupressiformis* 378
Cajanus cajan 3593, 5113, 5876-5877
Casuarina equisetifolia 515
cotton 8737
Cymbopogon winterianus 3614
fruit trees 5089
maize 514, 754
Pennisetum glaucum 1592
rice 8738
Ricinus communis 6047
sesame 3806
sorghum 4642
sugarcane 3784, 5326
irradiation, ultraviolet radiation 3579
irrigation 1107, 4355-4356, 5091, 5847, 8456, 8520
saline water 7909
sodic water 5850
irrigation scheduling 5091, 5847
leaf area index 5877
leaves
composition
carotenoids 7654
chlorophyll 5094, 5668, 7654
nitrogen 5096, 5848
proteins 5096, 7654
starch 5096
enzymes 5856, 5858
greening 7654
metabolism
carotenoids 7654
chlorophyll 7654
proteins 7654
temperature 1081
water content, estimation 564
light, quality 3579
metabolism
carbohydrates 4658
carotenoids 7654
chlorophyll 7654
proteins 7654
mineral nutrition
aluminium 3066
cadmium, toxicity 5094
nitrogen 5858, 6772

Vigna radiata *cont.*
mineral nutrition *cont.*
phosphorus 6773
deficiency 3578
sources 7919
mineral uptake
calcium 7053, 8458
magnesium 7053
molybdenum 5092
nitrogen 539, 2872, 3573, 4356, 5845, 6132, 8459
phosphorus 539, 4356, 5849, 6132, 6773, 7919, 8458-8459
potassium 539, 4356, 6132, 8459
sulphur 5092
multiple cropping 6132, 7052
Brassica juncea 6078
Cyamopsis tetragonoloba 8734
maize 5325, 8734
Mentha arvensis 6765
potatoes 5325, 8734
rape 8458
rice 5849, 6140, 7053, 8240
wheat 5325, 6140
mycorrhizas 1083, 3578, 4384
nitrogen fixation
fertilizers 6773
salinity 5098
nodulation 5144, 5845, 6769
antibiotics 6777
fertilizers 6773
nodules
anatomy 382
composition
ascorbic acid 5098
leghaemoglobin 5098
nitrogen 6777
ureides 5098
enzymes 4359, 5858, 6777
number 6769, 6777
cultivars 6773
fertilizers 6773
photosynthesis
cadmium 5094
gas exchange 1081
temperature 1081, 1751
plant competition, weeds 1750, 3593, 3616
plant density 1592, 3571
pods
composition
aluminium 6772
nitrogen 5096
proteins 5096
starch 5096
pollution
cadmium 5094
lead 8796
precipitation 5350
relative humidity 5350
relay cropping, wheat 5325
roots
cation exchange capacity 3066
growth regulators 1082
initiation 1082
length 3066
rotations 539
cotton 7061
maize 6130
rice 7061
Trigonella foenum-graecum 7051
row spacing 4354
salinity 4363, 5098
seed development 3573
seed germination
cultivars 3574
enzymes 3570, 3574, 5852, 5854
growth regulators 3585
hard seeds 1722
insecticides 566
metabolism 8774
proteins 5852
seed treatment 1722, 3570, 8462
soil moisture content 8462
surfactants 3585
water stress 3574
seed inoculation
Bradyrhizobium 754
Rhizobium 2872, 3569, 5858
residual effects 3577
strains 3577

Vigna radiata *cont.*
seed inoculation *cont.*
Rhizobium phaseoli 6769
seed testing, vigour 6778, 6830
seed treatment
cattle manure 8462
heat 1722
mercury 3570
phosphorus 8462
soaking 8462
seedling emergence
soil water content 7905
sowing depth 7905
seedlings
composition, proteins 5097
cotyledons
metabolism, proteins 5852
senescence 5852
enzymes 3575, 5852
growth 3575
growth regulators 3575
seeds
composition
amino acids 7656
carbohydrates 6768
fatty acids 5914
lipids 5914
nitrogen 5850, 6768
phosphorus 5850, 6768
potassium 5850, 6768
proteins 4420, 6768
starch 6768
sulphur 6768
cotyledons
metabolism, proteins 5852
mitochondria, enzymes 8774
senescence 5852
embryos
composition
nucleic acids 5872
proteins 5872
starch 5872
metabolism
nucleic acids 5872
proteins 5872
starch 5872
hard seeds 1722
mitochondria, enzymes 5161
moisture content 6830, 8525
physical properties 6775, 8525
storage, environment 5859
temperature 6775
viability 1722
vigour 6830
soil, mine spoil 6776
soil amendments
gypsum 5850
lime 8458
soil compaction 361
soil conservation 1348
soil depth 7689
soil inoculation
Glomus intraradices 1083
Rhizobium 6776
soil pH 6772
soil temperature 1083
soil types 3578
soil water content 7905
solar radiation 5350
sowing date 522, 1078-1079, 1730, 7689, 8455, 8520
sowing depth 7905
sowing methods 3571
broadcasting 5090, 8738
direct sowing 5090
sowing rates 5090
spacing 3571, 5090, 5846, 8456
straw
composition
nitrogen 5850
phosphorus 5850
potassium 5850
taxonomy 2873, 2903
temperature 1081, 1723, 3576, 5350, 6775
tissue culture
cotyledons 4362
culture media 351
explants 351, 5857
growth regulators 351, 2871, 4360, 4362, 5857

***Vigna radiata** cont.*
- tissue culture *cont.*
  - organogenesis 351, 5857
  - regeneration 4362
  - regenerative ability 2871
  - salinity 4363
- translocation
  - nitrogen 3570, 3573, 4356
  - phosphorus 4356
  - potassium 4356
  - source sink relations 3573, 7690
- transpiration, temperature 1081
- water conservation 1348
- water table 1107
- water use 5847
- water use efficiency 1107, 5847, 8456
- weed control
  - cultivation 8240
  - herbicides 3572, 3616, 7653, 8240
  - manual weed control 1750, 3572, 7653, 8240
- weeds
  - *Dactyloctenium aegyptium* 3572
  - *Eragrostis pilosa* 3572
  - *Eragrostis riparia* 3572
- yield components 5144, 8460
  - cultivars 5851
  - fertilizers 5848
- yield correlations 5350, 7690
  - cultivars 349, 5851
  - soil water content 6826

Vigna subterranea
- chemical composition 4650
- fertilizers 4650
- flowering, induction 5875
- flowering date 2880
- leaves, thickness 5917
- light intensity 5917
- mineral nutrition 4650
- photoperiod 2880, 5875
- photosynthesis, light 5917
- seed development 5111
- seeds
  - composition
    - amino acids 5110
    - carbohydrates 5110
    - lipids 5110
    - nitrogen 5111
    - phosphorus 5111
    - proteins 5110-5111
    - starch 5111
    - sugars 5111
    - tannins 5110
  - embryos, development 5875
- shading 5917
- sowing date 2880
- taxonomy 6789
- water supply 5110

Vigna umbellata
- fertilizers, phosphorus 5144
- intercropping
  - *Guizotia abyssinica* 7829
  - rice 6823
- nodulation 5144
- nodules, number 6823
- seeds
  - composition
    - fatty acids 5914
    - lipids 5914
- yield components 5144

Vigna unguiculata
- accumulation, nitrogen 7690
- agroforestry, India, Tamil Nadu 6133
- allelopathy, *Acacia auriculiformis* 5655
- cell membranes
  - growth regulators 2252
  - plasma membranes, enzymes 1681
  - proton pump 2252
- chemical composition 4650
  - calcium 8466
  - chloride 3587
  - chlorophyll 3587
  - nitrogen 8466
  - phosphorus 8466
  - potassium 8466
  - starch 3587
  - sugars 3587
- chlorophyll, fluorescence 1751
- crop husbandry, India, Kerala 8463
- crop residues, removal 849

***Vigna unguiculata** cont.*
- cropping systems, India, Uttar Pradesh 8808
- cultivars
  - Cyprus 1725-1726
  - India 2893
    - Uttar Pradesh 8465-8466
  - maturity groups 5100
  - mixtures 7659
  - Niger 7473
  - Senegal 7659
  - Bettergro Blackeye 8468
  - Carolina Crowder 8469
  - Early Acre 3581
- cultivation
  - no-tillage 849
  - ridging 5695, 7473
- disease control, fungicides 3583
- diseases
  - *Erysiphe polygoni* 3583
  - *Uromyces appendiculatus* 3583
- drought 4347
- drought resistance 357, 6673
  - cultivars 2877
- enzymes
  - adenosinetriphosphatase 1681
  - amylases 3587, 6785
  - catalase 5864
  - hydro-lyases 8774
  - hydrolases 1085
  - nitrogenase 3588
  - oxidoreductases 7660
  - peptide hydrolases 6785
  - ribulose-bisphosphate carboxylase 1086
  - superoxide dismutase 5864
- epicotyls
  - growth
    - growth regulators 2253, 3586
    - light 2253
  - metabolism, growth regulators 3586, 8473
- evaporation 5350
- farming systems, Mali 4638
- fertilizers 4650
  - boron 2874
  - iron 6782
    - foliar application 7600
  - manganese 6782
    - foliar application 7600
  - nitrogen 2874, 4368, 5099, 7051
    - application date 6781
    - foliar application 4367, 6781
    - residual effects 7657
    - sources 7657
  - NPK fertilizers 2874, 6135, 7053, 7659, 8463
  - phosphorus 2249-2250, 4366, 4368, 5099, 5860, 6780, 7473, 7658, 8465-8467
    - application date 6781
    - foliar application 6781
    - residual effects 4223, 6257
    - sources 4653, 6257
  - potassium 4368
    - foliar application 4367
    - residual effects 849, 4223
  - refuse compost 2249
  - sulphur 2874
  - zinc, foliar application 7600
- flooding 7661
- flowering date
  - photoperiod 3584
  - sowing date 3584
  - temperature 3584
- flowers, development, temperature 5106
- fungicides
  - copper sulphate 3583
  - mancozeb 8463
  - maneb 3583
- growth, models 5100, 5102
- growth regulators
  - auxins 8524
  - chlormequat 354
  - cytokinins 8524
  - Cytozyme 8524
  - ethephon 4367
  - ethylene 3585
  - gibberellins 2253, 3586, 5862, 6779, 8473
  - IAA 2252

***Vigna unguiculata** cont.*
- growth regulators *cont.*
  - LAB-198-999 3586
  - maleic hydrazide 354
  - NAA 4367, 6779
  - TIBA 354
- heat injury 5106
- herbicides
  - bentazone 5861
  - chlorthal-dimethyl 5861
  - diphenamid 5861
  - fluazifop 5861
  - metobromuron 6784
  - metolachlor 6784
  - pendimethalin 5861, 6784
  - prometryn 6784
  - trifluralin 5861
- insecticides
  - carbaryl 3583
  - endosulfan 1727
  - fenvalerate 2874
  - malathion 1727, 3583
  - monocrotophos 1727
  - neem extracts 1727
  - phosphamidon 8463
  - pirimicarb 2874
- intercropping 7900
  - *Annona squamosa* 8739
  - cassava 3580, 6135
  - cotton 2874
  - *Cymbopogon winterianus* 3614
  - groundnuts 3513
  - maize 3580, 6411
  - *Pennisetum glaucum* 352, 3580, 5103, 6780
  - *Phyllanthus emblica* 8739
  - rice 353
  - *Ricinus communis* 8736, 8745
  - sorghum 3580, 6585, 8464
  - tobacco 4593
- irradiation, ultraviolet radiation 1086, 2254, 5864
- irrigation 4366, 5102, 7661, 8463, 8465-8467, 8745
  - factory effluents 8744
- leaf conductance, water stress 5105
- leaf water potential 3587, 4370
  - water stress 5103-5105
- leaves
  - accumulation, callose 3065
  - anatomy 2876
  - canopy, reflectance 7471
  - composition
    - calcium 1115
    - heat shock proteins 2254, 8471
  - growth regulators 3585
  - metabolism, heat shock proteins 2254
  - senescence 355, 357, 1728, 5101
  - stomata 5101
  - surfactants 3585
- metabolic inhibitors 8471
- metabolism
  - anthocyanins 5864
  - growth regulators 8473
  - heat shock proteins 5911, 8471
  - phenolic compounds 5864
  - proteins 8471
- mineral nutrition 4650
  - aluminium 1084
  - calcium 2875
  - iron 7600
  - manganese 7600
    - toxicity 3065
  - phosphorus, sources 7919
  - zinc 7600
- mineral uptake
  - calcium 2875, 7053, 8466
  - iron 6782, 7600, 7660
  - magnesium 7053
  - manganese 6782, 7600
  - nitrogen 539, 5860, 6782, 8466
  - phosphorus 539, 5860, 6782, 7919, 8466
  - potassium 539, 5860, 8466
  - zinc 7600
- mulches 8743
  - grasses 7661
  - weeds 7661
- multiple cropping 7052
  - *Cicer arietinum* 8743
  - maize 8734

Vigna unguiculata *cont.*
multiple cropping *cont.*
rice 7053
wheat 8734
mycorrhizas 2878
water stress 4373
Nigeria 7900
nitrogen fixation 353, 3588
nodulation 353, 1754, 2249, 3588, 4376
fertilizers 5860
herbicides 6784
nodules
anatomy 382
composition, ureides 4376
growth regulators 5862
number 4223, 6784
size 6784
pest control, insecticides 3583
pests
Cydia ptychora 1727
Hoplolaimus seinhorsti 7083
Lampides boeticus 1727
Maruca testulalis 1727
Maruca vitrata 3582
Nezara viridula 3583
petioles, composition, ureides 4376
phloem, development 2876
photosynthesis
light harvesting complexes 532
photoinhibition 8470
photosystem II 8470
temperature 1751
water stress 3587
phytochrome 8473
light 2253
plant competition, weeds 1750
pods
development, temperature 358
removal 1728
pollen, development, temperature 358
precipitation 5350
relative humidity 5350
remote sensing 7471
root exudates, allelopathins 6783
root systems 6622
root water potential, water stress 5105
roots
density 5104
depth, water table 5863
distribution 5104
water table 5863
growth 1084
rotations 539
Brassica juncea 7051
maize 6130
Pennisetum glaucum 7473
rice 849, 2374, 5100, 5102, 7657
wheat 6257
seed germination
allelopathy 4950, 5655
enzymes 1085, 6785
factory effluents 8744
metabolism
proteins 6785
starch 6785
thiamin 380
seed treatment 6779, 8524
storage 4377
seed inoculation
Bradyrhizobium 2249
Rhizobiaceae 1754
Rhizobium 6782
strains 3588
seed production 354
seed quality 1753, 4365
growth regulators 354
seed treatment, growth regulators 6779, 8524
seed weight 4365
seedlings
composition
carotenoids 8524
chlorophyll 8524
growth
allelopathy 4950
seed treatment 8524
vigour 4377
seeds
composition
carbohydrates 5861
fatty acids 5914

Vigna unguiculata *cont.*
seeds *cont.*
composition *cont.*
lipids 5914
proteins 354, 1729, 1753, 4371, 4420, 5861
cotyledons
enzymes 1085
mitochondria, enzymes 8774
density 4365
imbibition 2251
moisture content 8472
metabolism, thiamin 380
storage, deterioration 4377
vigour 4365, 4377
soil amendments
gypsum 1115
lime 1115, 4223
soil depth 7689
soil inoculation
Bradyrhizobium, strains 4376
Glomus pallidum 2878
Rhizobium 2878, 6782, 8463
Sclerocystis microcarpa 2878
solar radiation 5350
sowing date 352, 522, 3584, 4369, 5100, 7689
sowing methods 8743
spacing 5860
stems, growth regulators 5862
submergence, models 3079
taxonomy 5107
temperature 358, 2254, 5106, 5350, 5911, 8471
heat sums 3584
tissue culture, aluminium 1084
translocation
calcium 2875
source sink relations 1728, 7690
water relations 357, 4370
water stress 357, 3587, 4373, 5103-5105, 5864, 6673
growth stages 356
water table 5100, 5102, 5863
water uptake 4370, 5863, 6622
water use 5103-5104, 8467
water use efficiency 356, 8467
waterlogging, tolerance 4374
weed control 8463
cultivation 7473
herbicides 8800
manual weed control 1750, 8800
weeds, *Striga gesnerioides* 6783
windbreaks 5695
yield components 4369
yield correlations 5350, 7690
soil water content 6826
yields
models 5100
stability 5100, 5102, 7659
Vigna unguiculata* subsp. *sesquipedalis
allelopathy, *Pluchea lanceolata* 4375
chemical composition, amino acids 8474
enzymes, carboxy-lyases 4659
photosynthesis, allelopathy 4375
roots
composition
calcium 4375
magnesium 4375
nitrogen 4375
phosphorus 4375
potassium 4375
sodium 4375
zinc 4375
shoots
composition
calcium 4375
magnesium 4375
nitrogen 4375
phosphorus 4375
potassium 4375
sodium 4375
zinc 4375
stomatal resistance, allelopathy 4375
Water balance, models 2408
Water relations
plant physiology 548
reviews 2373
Water stress 541
books 8833
maize 2636

Water stress *cont.*
reviews 1929, 3087
Water uptake, reviews 1926
Waterlogging, books 3114
Weed control (*see also* herbicides)
cultural control 987
integrated control 987
manual weed control 987
West Africa
groundnuts, farming systems 2195
Pennisetum glaucum
cropping systems 954
precipitation 954
rice, crop husbandry 7378
yields, assessment 4685
Wheat
absorption, herbicides 641
accumulation
boron 55
calcium 55
chlorine 5472
copper 46, 55
iron 46
magnesium 55
manganese 46
potassium 55, 5472
sodium 5472
zinc 46, 55
agricultural meteorology 4707
Canada 7095
China 7095
Europe 599, 7095
India 7095
Irish Republic 3118
models 6335
Morocco 968
UK 3118
USA 7095
agroforestry 3119
China 1973
India
Bihar 6690
Haryana 6228
Indian Punjab 1972
air pollution
carbon dioxide 2514
fallout 3202
hydrofluoric acid 3201
hydrogen sulphide 3973
nitrogen oxides 3201
ozone 2394, 4781, 4784, 5356, 8084
growth stages 4780
models 1439
radionuclides 3202
sulphur dioxide 78, 3201, 3974, 6328
allelopathy 1333, 3532, 6314, 7206, 8784
Ageratum conyzoides 6554
Agrostemma githago 4777
Alysicarpus vaginalis 6554
Azadirachta indica 2043
Cassia angustifolia 2043
Centella asiatica 6554
Desmodium triflorum 6554
Eclipta alba 6554
Erigeron karwinskyanus 693
Erigeron linifolius 693
Fimbristylis dichotoma 6554
Fimbristylis littoralis 6554
Hedyotis corymbosa 6554
Medicago sativa 6309
Oxalis corniculata 6554
Pennisetum glaucum 3076
Sasa cernua 3167
Sphaeranthus indicus 2043
straw 2454
sunflowers 6225
Trianthema portulacastrum 1334
alley cropping
Eucalyptus 6690
Populus deltoides 6228
altitude 8794
anatomy 2046
anoxia 4778, 4952, 7207
antitranspirants 5327
biomass production 10
carbon dioxide enrichment 1938, 2513-2514, 8082, 8088
reviews 1656
cell culture
protoplasts 6316
regeneration 6316

Wheat *cont.*
- cell cultures
  - enzymes 4755
  - herbicides 3068-3069
  - mineral nutrition 6154
- cell membranes
  - composition, proteins 5457
  - ion transport, anoxia 7207
  - metabolism 3945
  - plasma membranes
    - anoxia 7207
    - enzymes 3177, 8070
    - phytochrome 2500
  - proteins 6324
  - temperature 6324
  - transfer, proteins 1415
  - water relations 5450
  - water stress 685
- cell walls
  - composition
    - determination 4789
    - proteins 7194
- cells
  - mitochondria, enzymes 3454
  - nuclei, ultrastructure 7183
  - salinity 8080
  - temperature 74
  - ultrastructure, temperature 6324
- chemical composition 4650
  - betaine 70
  - boron 6162
  - cadmium 2391, 4751, 6635
  - calcium 653, 2045, 6161, 8053, 8787
  - carbohydrates 269
  - chloride 3907
  - chlorophyll 269, 2030, 3976, 4787, 7132
  - copper 631, 653, 2053, 2391, 6162
  - cultivars 2045
  - elements 2035, 4206
  - fatty acids 5458, 5466
  - iron 653, 6157, 6162
  - lead 2391, 6635
  - lectins 7205
  - lipids 73
  - magnesium 2045, 6161, 8787
  - manganese 653, 2053, 6162
  - molybdenum 631, 6162
  - nickel 6635
  - nitrates 631, 1990, 2032
  - nitrogen 615, 1990, 2032, 3045, 4732, 4735, 4744, 6161, 7132, 7208, 8073, 8768
  - phenolic compounds 7076
  - phospholipids 5458, 5466
  - phosphorus 150, 1990, 2045, 3907, 4732, 4735, 6161, 6258, 8787
  - pigments 67
  - potassium 1990, 2045, 4735, 6161, 7169, 8787
  - proline 70
  - proteins 269, 2034, 3969, 4199, 4744, 8059
  - sodium 2045, 6161, 8787
  - sterols 5458
  - sugars 70, 4205
  - sulphur 3907, 4751, 5025
  - titanium 7485
  - trace elements 4206
  - zinc 653, 2053, 2391, 2481, 5439, 6162, 6635
- China 3190
- chlorophyll
  - fluorescence 2477-2478, 3171, 5433, 5461, 5464, 6281
  - salinity 5468
- chloroplasts
  - composition, proteins 2392
  - development 1408, 6298, 8061
  - enzymes 52, 1408, 1688, 3454, 6298, 6301, 6320, 8061
  - growth regulators 6312
  - herbicides 1408
  - light 8061
  - metabolism
    - chlorophyll 6298
    - growth regulators 4753
    - lipids 2478
    - nitrogen 5342
    - proteins 5464, 8061
    - sulphites 48

Wheat *cont.*
- chloroplasts *cont.*
  - thylakoids 2478
  - ultrastructure 6286
    - water stress 4770
- climate 3190, 4709, 8798
  - Australia, Western Australia 6125
- climatic change 3862, 4779, 7211
  - China, Ningxia 7211
  - Czechoslovakia 3848
  - India 1938
  - models 1940, 2506, 2514-2516, 2694
  - USA 6329
    - models 578-581
- cold hardening 73-74, 3194, 3936, 4771, 4773
  - cultivars 7201
  - growth regulators 3195
  - metabolic inhibitors 3195
  - metabolism 4774
- cold resistance 650, 1418, 3970, 3973, 4803, 4835, 6324
  - growth regulators 1927, 7119
- coleoptiles
  - cold resistance 5467
  - composition
    - carbohydrates 3951
    - dry matter 3951
  - enzymes 6300
  - growth 901
    - cultivars 4761
    - soil compaction 4761
  - length, cultivars 6267
  - temperature 5467
  - tropisms, geotropism 3950-3951
- conferences 2417
- continuous cropping 2, 2429, 4710, 8299
- cover crops 314, 518
  - *Medicago sativa* 7482
  - *Trifolium pratense* 7482
- crop husbandry
  - Australia
    - computer software 3209
    - Western Australia 6126
  - Brazil 7127
  - Nepal 6221
- crop management, expert systems, Netherlands 1295
- crop residues 6264
  - remote sensing 3979
  - removal 7992
  - straw 2454
  - water harvesting 4728
- cropping systems, India, Uttar Pradesh 8808
- cryoprotectants, dimethyl sulfoxide 1395
- cultivars 5436
  - Albania 2455
  - Algeria 1401
  - Australia
    - New South Wales 1456, 4719
    - South Australia 3917
    - Western Australia 4718, 8033
  - Austria 5709-5710
  - Brazil
    - Santa Catarina 4654
    - São Paulo 2070
  - Burundi 2007
  - Canada
    - Alberta 40
    - Manitoba 6283, 8032
  - China 1984, 3152, 6271, 7163
  - classification 270, 562, 633
  - Czech Republic 6265-6266
  - Czechoslovakia 1402, 1607, 5435
  - Denmark 8758
  - Ethiopia 1997, 2018-2019, 2024
  - France 8029
  - genotype environment interaction 634, 1399, 8032-8033
  - Germany 39, 1413, 6271, 7158
  - Hungary 3918
  - identification 41, 699
    - techniques 6408
  - India 635, 2023, 3154
    - Andhra Pradesh 8002
    - Haryana 1424, 5427
    - Himachal Pradesh 8019
    - Indian Punjab 1398, 2452
    - Orissa 1400
    - West Bengal 7147

Wheat *cont.*
- cultivars *cont.*
  - Italy 961, 1986, 2020-2022, 3919, 6631, 7153-7156, 7996, 8026-8030
  - Kazakhstan 8013
  - Kenya 1994
  - Korea Republic 3916
  - mixtures 1427, 3169, 5428, 7206
  - Nepal 6267
  - Portugal 8029
  - Romania 14, 7161, 7484
  - selection, computer software, expert systems 4788
  - Slovakia 8031, 8089
  - South Africa 4739
  - Spain 3153, 8029
  - Switzerland 7157
  - Tanzania 6268
  - UK 4740
  - Ukraine 2456
  - USA 1399
    - Alabama 4968, 8303
    - Montana 77
    - Ohio 5335
    - Oregon 7218
    - Washington 7162
  - yield components 6283
  - 8165 8036
  - AC Baltic 2469
  - Alena 2460
  - Biljana 2460
  - Boval 6273, 6632
  - CDC Makwa 2466
  - Conway 2465
  - Cutler 2467
  - Daichinominori 1404
  - Galaxie 2025
  - Gemmeiza-1 2462
  - Giza-165 2462
  - HI977 2463
  - Howell 3923
  - HS240 8035
  - Inđija-89 3163
  - Inna 3162
  - Kenyon 2468
  - Lawson 1403
  - Levcanka 3161
  - Lihnida 2458
  - Lona 3155
  - Longmai-15 3157
  - Lueg 6274, 6632
  - Mangala 3156
  - Marina 2460
  - Nemchinovskaya-52 2461
  - Norin-10 7164
  - Nova Skopjanka 2457
  - Obelisk 4741
  - Olma 3159
  - PBW 175 3922
  - PBW 65 3922
  - PBW154 2464
  - Polimka 2459
  - Ramosa 636, 6632
  - Rely 6272
  - Sakha-69 2462
  - Studenica 3158
  - WL 2265 3922
  - Yu Feng-1 8037
  - Zernogradka-6 3160
  - Zhengzhou-831 6275
- cultivation 3898, 4709
  - chiselling 602, 3841, 6229, 7904, 7994
  - conservation tillage 10, 1336, 1934, 2510, 6234
  - crop residues, incorporation 4712
  - depth 8-9, 1373-1374, 2454, 3122, 3888, 6230-6231
  - discing 520, 3122, 3808, 7904
  - harrowing 7, 520, 6231, 7132, 7904
  - hoeing 7993
  - interrow cultivation 4720
  - methods 521, 6260
  - minimum tillage 6, 9, 602, 1374, 1405, 1602, 1974, 3888-3889, 6232-6233, 8299
  - no-tillage 8, 521, 602-604, 1373-1375, 1405, 1909, 1934, 1975-1977, 3123-3125, 3889, 3910, 4713, 4728, 4733, 5400, 6225,

Wheat *cont.*
cultivation *cont.*
no-tillage *cont.*
6229, 6232, 6234-6236, 7992, 7994
ploughing 7-8, 10, 520, 602, 1373-1374, 1974, 1977, 3122-3124, 3808, 5400, 6231, 6234, 6236, 7132, 7904, 7992, 7994
ridging 1602, 1996, 6232
ripping 5473
rotary cultivation 1373, 6229
straw incorporation 7, 6264, 8299
stubble cultivation 602, 4711, 6236
subsoiling 6, 519
cutting 1382
cutting date 3449
damage, responses 5348
development
models 58-59, 2516, 4762
temperature, models 2506
disease control 4639
cultural control 957
fertilizers 1391
fungicides 7116
diseases
Alternaria alternata 3927
bacteria 2476
Cercosporella 3126
Cladosporium 3927
Erysiphe graminis 13, 2026, 3169, 3452, 8043-8044
Fusarium 3169
Gaeumannomyces graminis 2004, 2474, 6633, 8043
Gaeumannomyces graminis var. *tritici* 1391, 2451
Leptosphaeria nodorum 3169, 6283
Mycosphaerella graminicola 13
organic farming, UK 6276
Pseudomonas fluorescens 7084
Puccinia graminis 2475
Puccinia recondita 3169, 3928, 8044
Puccinia striiformis 2008, 3169, 6282
Pyrenophora tritici-repentis 3170
Rhizoctonia cerealis 2021
Urocystis agropyri 647
wheat spindle streak mosaic virus 648
drainage 1996, 3971, 8807
drought 1378, 5408, 6329, 8073-8074, 8310
drought resistance 682-683, 685, 2046, 5450
cultivars 1431, 3932, 6322
evaluation 700
dry matter accumulation 2479, 4198, 4729
cultivars 39
reviews 668
soil water 7211
temperature 7211
dry matter distribution
cultivars 39, 3916
reviews 668
energy relations 3043, 7161, 7165
energy requirements 2436, 4703, 6224, 6250
environmental factors, Germany 1429
enzymes
acid phosphatase 3930
adenosinetriphosphatase 52, 3454, 7207, 8070
alcohol dehydrogenase 2485
amidase 7179
aminotransferases 665, 689, 3936
amylases 53, 666, 2732, 3912, 3929-3930, 3937, 4952, 5445, 5451, 5454, 6299, 7178, 7191-7192, 8076
aspartate aminotransferase 4755
carboxy-lyases 620, 7181
catalase 3929-3930, 6295, 7064, 7180
DNA polymerase 6303
β-fructofuranosidase 3175, 3912, 3929-3930, 5448, 5467, 6297, 6300
glucose-6-phosphate dehydrogenase 51, 3940, 6295
glucosidases 663

Wheat *cont.*
enzymes *cont.*
glutamate-ammonia ligase 2034, 3936, 3976, 4787, 7419, 7925, 8059
glutamate dehydrogenase 3186, 3936, 3942, 4755
glutamate synthase 3942
glycogen (starch) synthase 8075
hydro-lyases 49, 5444
hydrolases 3175, 3177, 3941, 6297, 7069
IAA oxidase 3930
inhibitors 53, 6299, 7178
isomerases 54
lactate dehydrogenase 2485
ligases 3912, 8061
lyases 3168
malate dehydrogenase 4755, 6304
methyltransferases 5449
nitrate reductase 266, 1418, 1432, 3123, 3172, 3184, 3187, 3929, 3942-3943, 3976, 4749, 4785, 4787, 5446, 7170, 7925
nitrite reductase 7925
nitrogenase 2054, 2745
oxidoreductases 51, 664, 1408, 2490, 3936, 6279, 6291, 6295, 6298, 6301-6302, 6320, 7180
oxygenases 2037-2038, 4244
peptide hydrolases 3939, 6299
peroxidases 3930, 3974, 6320, 7064, 7180
phosphoenolpyruvate carboxylase 2034, 2036, 6304, 8059
phosphoric monoester hydrolases 1688
phosphotransferases 51, 655, 2036, 3175, 3930, 3938, 6291, 7928
pyrophosphatases 3930
ribulose-bisphosphate carboxylase 2049, 3825, 3986, 4767, 4770, 5444, 6166, 6291, 6304
pollution, wheat 8084
RNA polymerase 3185, 3950
(s)-2-hydroxy-acid oxidase 4770, 7064
sucrose synthase 2036, 2485, 3175
superoxide dismutase 3974, 7180
transferases 51, 2491, 5447-5448, 6297, 8060
equipment, combine drills 1978
evaporation, growth stages 2505
evapotranspiration 6, 667, 2504, 3080, 3966, 4729, 5411, 5432, 6626
cultivars 6305
estimation 1931-1932, 7070, 7493
growth stages 2505
far red light 2500
farming systems, organic farming 7157
fertilizers 2429, 4650, 4709, 6493
boron 1606, 3142, 3149, 3913, 4735, 5423, 7147, 7151
foliar application 3912
calcium 1395, 1397, 2012
cattle manure 2100, 3980
cattle slurry
application date 36
use efficiency 36
composts 4639, 4738, 6147
copper 631, 2007, 3147, 3149, 6263
requirements 4735
crop residues 22, 4713, 6144
farmyard manure 1-2, 22, 30, 38, 554, 628, 630, 1402, 2428, 2442, 3146, 3151, 3451, 3809, 3844, 3908, 4639, 5026, 5418, 5421, 6143-6145, 6260, 6645, 7063, 7145, 7150, 7327, 7487, 7902, 7916, 8006, 8014, 8807
residual effects 5328, 6326
use efficiency 4725
iodine 3149
iron 6263
lithium 3914
magnesium 1395, 1397, 2007, 2017, 4748
manganese 959, 1395, 2013-2014, 3147, 3149, 3914, 6263
foliar application 2452, 3148
requirements 3148

Wheat *cont.*
fertilizers *cont.*
manures 1969, 6264
molybdenum 631, 1395, 3149, 3914, 5423, 7151
foliar application 4736
nitrogen 1-2, 5-6, 10, 13, 16-17, 20-21, 23-25, 29, 32, 37, 39, 57, 77, 93, 520, 525-526, 529, 610, 614, 618, 625, 629, 646, 948, 1375, 1381, 1385, 1387-1389, 1391-1392, 1394, 1431, 1605, 1970-1971, 1979-1980, 1990, 1997, 1999-2000, 2007-2010, 2012, 2016, 2019, 2035, 2051, 2100, 2178, 2430, 2439-2440, 2442, 2448, 2470, 2587, 2732, 2735, 2902, 3053, 3057, 3121, 3124, 3131, 3144-3145, 3147, 3178, 3180, 3182, 3205, 3809, 3844, 3886, 3905, 3911, 3929, 4710, 4712, 4720, 4722, 4727, 4733, 4748, 5325, 5328, 5398, 5403-5404, 5409-5410, 5420-5421, 5425-5426, 5640, 5772, 6127-6128, 6144, 6161-6162, 6223, 6226, 6236, 6241, 6246, 6256, 6264, 6326, 6599, 6645, 7051, 7116, 7121, 7128, 7131-7134, 7136, 7140-7141, 7146, 7150, 7158, 7212, 7327, 7329, 7481, 7484, 7487, 7912, 7915, 7992, 7994, 7996, 8001, 8010, 8019-8022, 8025, 8086, 8755
application date 7, 22, 26, 28, 615-616, 619-622, 1390, 1998, 2002-2003, 2007, 2011, 2441, 2443-2444, 3135-3140, 3902-3904, 3906, 4728-4730, 6251-6254, 6260, 7135, 7137-7138, 7164, 7997-7998, 8008, 8011-8012
models 617
application methods 519, 2004, 2381, 2449, 3123, 3903-3904, 4728-4729, 4732, 6251, 6255, 7139, 7908
models 2445
foliar application 19, 623, 1393, 2439, 2444, 3139, 4730-4731, 4736, 6261, 8013
methods 28
models 1386, 3903
requirements 2380, 4710-4711, 4726, 7142
determination 3134
models 617, 8756
residual effects 131, 3350, 3886, 6140, 6262, 8481
reviews 2381
sources 47, 2004, 2099, 2441, 3275, 3350, 3609, 5026, 5413, 5446, 6255, 7120, 8008
use efficiency 27, 615, 619-620, 622, 624, 2001-2002, 3137, 3901, 3903, 4725-4726, 5411-5412, 6487, 7137-7138, 7483, 8009
NPK fertilizers 3, 24, 31, 38, 554, 631, 960, 1379, 1389, 1393, 1402, 1438, 2428, 2450, 2728, 3056, 3146, 3450-3451, 3884, 3914, 3980, 4639, 4734, 5394, 5405, 5697, 5708, 6143, 6222, 6263, 6645, 7053, 7056, 7124, 7126, 7143-7145, 7902, 7916, 7991, 8006, 8379, 8807
use efficiency 7062
organic fertilizers 33, 37, 2010, 5332, 7133, 7487, 7916
organomineral fertilizers 2439
phosphorus 1, 20-22, 30, 32, 37, 520, 611, 614, 626, 628-629, 948, 959, 1391, 1394, 1970-1971, 1990, 2005-2010, 2012, 2019, 2035, 2100, 2447-2449, 3054, 3124, 3145, 3147, 3809, 3844, 3901, 3907, 3911, 3929, 4710, 4720, 4733, 4738, 5328, 5330-

Wheat *cont.*
fertilizers *cont.*
phosphorus *cont.*
5331, 5404, 5416-5418, 5420, 6127-6128, 6144, 6258, 6326, 6508, 6599, 6628, 7059, 7141, 7146, 7150, 7327, 7329, 7915, 8015-8016, 8019-8022
application date 24, 28-29, 2011, 5415, 6260
application methods 3144, 7908
methods 28
models 697
requirements 3143, 3810, 6259, 7142, 8017
models 8756
residual effects 627, 3604-3605, 3886, 5419, 6262, 6927, 8481
sources 1396, 1617, 2446, 3141-3142, 3908-3909, 3978, 5329, 5414-5415, 5419, 6257, 8014
use efficiency 4725, 4748, 6257
pig manure 630
pig slurry 93, 529, 3057, 6147, 7140, 8008, 8023
application date 36
application methods 15
use efficiency 36
potassium 1, 21-22, 30, 32, 37, 528, 614, 948, 959, 1392, 1394, 1397, 1990, 2017, 2100, 3147, 3809, 3844, 3911, 3929, 4748, 5328, 5330-5331, 5473, 6144, 6326, 6599, 7146, 7329, 8018, 8022, 8225, 8755
application date 24, 28, 3910
application methods 7908
foliar application 6261
methods 28
residual effects 3886, 5633, 6262
use efficiency 4725
poultry manure 630, 6256
refuse compost 3059
residual effects 5426, 5697
residues 6256
rice straw 6264
sewage sludge 551, 1936, 2511, 7149
residual effects 7515
sheep manure 7916
slurries 2735, 7487
sodium 1397
straw 2016, 2453, 2735, 3451, 6143-6144, 7487, 7916
sulphur 20-21, 33-34, 150, 618, 959, 1308, 1395, 2012, 2449, 3124, 3884, 4733, 5341, 5422, 5456, 8022
residual effects 5421, 6927
sources 5025
titanium 7485
trace elements 21, 646, 1397, 2100
application methods 3150
wheat straw 5424
zeolites 2378
zinc 17, 630, 959, 1310, 1396, 1914, 2014, 2451, 3142, 3147, 3149, 3914, 4737, 6263, 7143, 7145, 7148, 7151, 7329, 7902, 8006, 8022
foliar application 632, 3911
requirements 35
residual effects 7405
sources 2015, 5026
use efficiency 35
field experimentation
border effects 3092
experimental design 83, 922, 7218, 8089
border effects 1986
experimental plots 922
plot size 922, 8033
site selection 1970
statistical analysis 7218
flooding 3972
flooding tolerance, cultivars 6322
flowering, induction 57, 3959
flowering date 4719
cultivars 3916
models 7123

Wheat *cont.*
flowers
anthers, enzymes 3930
gynoecium, removal 1422
frost injury 687, 4205, 6334
frost resistance 4205, 4803, 4835, 7940
cultivars 7201
fungicides 646, 3809
allopurinol 2490
anilazin 1413
benomyl 614, 1395, 2739
carboxin 606
copper oxyquinolate 5397
diniconazole 6282
ethylmercury chloride 6222
fenpropimorph 1413, 8042
flutriafol 606
hexachlorobenzene 1395
mancozeb 13
mercury fungicides 7120
pesticides 2440
phenylmercury acetate 6222
prochloraz 8042
propiconazole 13, 614, 1413, 2739, 3884, 6251, 7132, 8042
tebuconazole 606
thiabendazole 606
thiram 606, 6308
triadimefon 13, 614, 1381, 1992, 2739, 4749, 8006
triadimenol 606, 1413, 2026, 7120, 8044
gene expression
enzymes 666
growth regulators 666
salinity 7926
seed dormancy 5441
genotype environment interaction 6269
germination, seed treatment 6308
grain
accumulation
nitrogen 3139
phosphorus 3144
composition
amino acids 2, 676, 3188, 3928, 3953
ash 7162
boron 2739
cadmium 1936, 2391, 2740, 7515
caesium 2511
carbohydrates 669
chlorophyll 678
chromium 1936
cobalt 7515
copper 1936, 2391, 2739
elements 25, 2035, 8006
enzyme inhibitors 53
fats 676
gliadin 3135, 6310, 8077
gliadins 4727, 6311
gluten 2022, 3188, 6239
glutenins 3135, 6311, 8077
heavy metals 5660
iron 2014, 3150
lead 1936, 2391, 2739-2740
manganese 2014, 2739
molybdenum 4736
nickel 1936, 7515
nitrogen 2, 30, 619, 622, 674, 1375, 1388, 2497, 2587, 2902, 3139, 3904, 3942, 4710, 5341, 5413, 7144-7145, 8012
phenols 676
phosphorus 30, 2014, 2587, 3604, 7144-7145, 7187
potassium 30, 2014, 2587, 7144-7145
proteins 13, 77, 526, 602, 604, 616, 676-677, 1389, 1393, 1993, 2022, 2432, 2449, 3135, 3138, 3140, 3144, 3188, 3886, 3928, 4200, 4726, 4730-4731, 4736, 5403, 5412-5413, 5420, 5422, 6239, 6265-6266, 7128, 7137, 7143-7144, 7146, 7162, 7515, 8012-8013
determination 699
starch 676, 1389, 3912

Wheat *cont.*
grain *cont.*
composition *cont.*
sugars 676, 3912
sulphur 5341, 5456
zinc 35, 1936, 2014, 2391, 2739, 3150, 4737, 7148
damage 3900
development 72, 669, 3912, 3962, 4719, 4765, 7194
enzymes 3938
dry matter accumulation 669, 3139
endosperm
cell division 1422
development 1422
enzymes 3940
enzymes 53, 2732, 3912, 3930, 7179
assays 5445
filling 60, 669, 677, 2454, 4765, 5442, 6289
source sink relations 3965, 8047
water stress 3965
greening 678
growth, growth regulators 3947
mechanical properties, friction 3954
metabolism
carbohydrates 669
fructans 5442
proteins 677, 1393, 8077
sugars 3938
moisture content
determination 7221
environment 5460
models 7220
position, models 5470
preharvest sprouting 56, 6318, 7186
fertilizers 2732
quality 604, 1389, 2021, 3141, 3188, 6239, 6266, 8077-8078
baking quality 79, 616, 1402, 1427, 2444, 4201, 6627, 7162, 8032
cultivars 3918, 7159
cultivars 1427, 4740, 6271
determination 1443, 7193
milling quality 1427, 7131, 7162, 8032
temperature 5463
size 3965
water uptake 669
weight 1389, 6266, 7190
models 5470
grain drying, temperature 3900
green manures 21, 6143, 7487
Brassica campestris 2016
Crotalaria juncea 1617
Fagopyrum esculentum 1617
legumes 5425
Lens culinaris 2453
Leucaena leucocephala 2099
Medicago sativa 5424, 7482
Mucuna aterrima 1617
peas 5424
rape 2735
residual effects 5640, 6140
Sesbania 3151
Sesbania aculeata 856
residual effects 2140, 3915
Trifolium alexandrinum 2016, 2432
Trifolium pratense 2428, 7482
Vicia villosa 2432
growth 2744, 4828
cultivars 2041, 6271
herbicides 6279
models 58-59, 654, 670, 701, 1138, 1421, 2042, 2697, 2738, 3209, 4442, 4762, 5712-5713, 6191, 6334, 7188, 7214
remote sensing 2517-2518
temperature 269, 2041
water stress 1330
growth period 1984
cultivars 3916
growth regulators 3146, 7116
abscisic acid 1417, 2044, 2048, 2495, 3947, 3950, 4765, 4768, 4771, 6172, 6315, 7189, 7201
ACC 4753
acetylcholine, binding proteins 5453
adenosine 6174
amino acids 7192

Wheat *cont.*
growth regulators *cont.*
ancymidol 8782
ascorbic acid 1423
auxins 3947, 7129
BAS111W 6172, 8782
benzimidazoles 4667, 4764
benzyladenine 62, 613, 2495, 2501, 3186-3187, 3195, 3955, 4765
brassinosteroids 2495
chlormequat 19, 614, 674, 1381, 1395, 1423, 1991, 2450, 2739, 3136, 3184, 3191, 3884, 3891, 5407, 5409, 6281, 7119, 7130, 7190, 8006
chlormethylsilatrane 5455
choline chloride 674
cimectacarb 8782
cytokinins 2044, 3187, 4667, 4764-4765, 5408, 7129, 7189, 8732
binding proteins 4763, 6312
Cytozyme 4723, 7129
2,4-D 62, 679, 695, 1395, 1428, 2055, 3186, 3949, 3955, 4724
epibrassinolide 1992, 2495
ethamon 4665
ethephon 25, 1991, 3191, 3894, 3899, 7128, 7190
ethylene 3455, 4753
forchlorfenuron 8732
fusicoccin 3186
gibberellins 666, 673, 1419, 1423, 2044, 3891, 3937, 3941, 3946-3947, 4723, 7120, 7191-7192, 7200
growth inhibitors 646, 3809, 3947
growth stimulators 5454, 7191
IAA 2044, 2495, 3891, 3945-3946, 3950, 4329, 4723-4724, 7192
binding proteins 3185, 8063
Increcel 4723
kinetin 2501, 3126, 3891, 3894, 3946-3947, 7119
mepiquat 3899, 8782
Mixtalol 7129
NAA 3948, 4724
paclobutrazol 3126, 7119, 8782
pesticides 2440
polyamines 5461
Polystimulin K 5408
prohexadione 8782
seaweed products 1927
silver nitrate 1428
sodium humate 11
steroids 3946
tetcyclacis 3126, 8782
TIBA 3947
triacontanol 4723, 6174, 7129
triapenthenol 7119, 8782
triazoles 6172
zearalenone 5452
zeatin, binding proteins 4199
growth stages 7491
classification 268, 8064
computer software 7215
harvest index 1456, 2024, 3921
cultivars 6305
mineral nutrition 3902
harvesting
damage 2438
windrows, density 8004
harvesting date 1994, 3127
harvesting losses 3049, 8005
models 2437
heat resistance 686, 1418, 1434, 4771
heat shock 71
heat stress 649, 686, 8077-8078
reviews 2050
herbicide safeners 645
herbicides 3809
adjuvants 1945, 6280-6281
alloxydim 42
amiprophos-methyl 1408
atrazine 645, 2472
bentazone 6281
binding proteins 2472
bromoxynil 2471, 4739
chlorotoluron 640, 1407, 2011, 2038
chlorsulfuron 638, 2038, 3168, 4742
clomazone 1408
cyanazine 2376

Wheat *cont.*
herbicides *cont.*
2,4-D 614, 638-640, 1381, 1407, 2038, 2739, 3371, 3926, 5416, 6277
dicamba 614, 638, 1381, 2035, 2739, 3884
dichlorprop 7997
diclofop 637, 642, 2038, 2473, 3926
diuron 1407, 2376, 6281
fluazifop 6279
fluchloralin 8801
fluroxypyr 640, 3166, 3926, 5429, 6277
glufosinate 3069
glyphosate 639, 1945, 1974, 1976, 3068, 6281, 6295
haloxyfop 42
hexazinone 8802
imazapyr 8802
imazaquin 674
isoproturon 43, 640, 644, 1407, 2739, 3926, 5416, 5431, 6222, 6277, 8038
isoxaben 4656
linuron 2376
MCPA 2035, 2471, 3166, 3884, 3926
mecoprop 3166
metribuzin 2472
metsulfuron 3176
paraquat 639, 6295
pendimethalin 8801
phenmedipham 6281
phosphonates 639
prometryn 645, 2376
propazine 645
propiconazole 25
propyzamide 1405
pyridine herbicides 1341
residual effects 5430, 8801-8802
simazine 645
sulfometuron 3176
surfactants 6280
tebuthiuron 8802
terbutryn 1407, 1981
thiazolidinone herbicides 1409
tolerance 3176, 4742, 5430, 8802
toxicity 1945, 4739
tralkoxydim 640, 644, 4739, 6277
tri-allate 641
triazole herbicides 6295
triclopyr 8802
tridiazuron 690
trifluralin 1944
hydroponics 6294
inflorescences
development 8064
growth stages 8064
inoculation, cyanobacteria, strains 2054
insecticides 646
aldrin 1970, 6222
carbaryl 4759
deltamethrin 1381
demeton-S-methyl 3884
dimethoate 614, 8042
endosulfan 5394
methyl bromide 6625
parathion-methyl 1381
phoxim 1381
tefluthrin 5397
intercropping
Annona squamosa 8739
Brassica campestris var. *sarson* 4716
Brassica juncea 516, 3120, 7989-7990, 8742
Cicer arietinum 516, 3120
Lens culinaris 3120, 3602
Linum usitatissimum 4-5, 3120, 7991
Lolium multiflorum 2181
Paulownia elongata 1973
peas 3045, 3120
Phyllanthus emblica 8739
Populus deltoides 1972
rape 8742
rye 957
safflower 3120, 6227
soyabeans 5395
sugarcane 2361, 3805
Trifolium alexandrinum 2432
Trifolium pratense 2181
Trigonella foenum-graecum 3121

Wheat *cont.*
intercropping *cont.*
Vicia villosa 2432
irradiation
gamma radiation 79, 3843
ultraviolet radiation 1314, 2057
irrigation 6, 17, 26, 40, 516, 523, 611, 615, 1299, 1378, 1380, 1611, 1988-1989, 2435-2436, 3043, 3131, 3804, 3905, 4641, 4722, 5394, 5406, 5411, 5459, 5498, 6137, 6235, 7124, 7126-7127, 7141, 7147, 7994
economics 1379
fertigation 8001
flood irrigation 6247
growth stages 610, 3133, 4721, 5405, 7125, 8002
requirements 612, 7070
saline water 18, 3132, 3907, 4776, 5403-5404, 5421, 8079, 8748
sodic water 4776, 8748
sprinkler irrigation 6247, 6626
waste water 2512
water use efficiency 3132
irrigation scheduling 17, 612, 1380, 3131, 6248
land evaluation 701
land productivity, China 5459
land use 573, 1344
leaf angle 3208
leaf area, estimation 1442
leaf area index 6, 6222
cultivars 3916
determination 7214
estimation, techniques 3208
leaf diffusion resistance
temperature 72
water stress 72
leaf sheaths, growth, light 8071
leaf water potential 3179, 3192, 4756, 5450, 6321
temperature 72
water stress 55, 72, 683, 1432-1433, 3184
leaves
accumulation
cadmium 6291
manganese 2030
proline 1417, 2048
sodium 3196
anatomy 5408
canopy
absorption, ammonia 8023
reflectance 7195
temperature 4758, 7373
cell membranes, ion transport 2507
cells, frost injury 687
composition
amino acids 3939, 4769
arabinitol 1928
calcium 2045, 3932, 4769
carbohydrates 7167
carotenes 3191
chlorophyll 1423, 2049, 2477, 2483, 3191, 7132, 8084
measurement 3853
elements 25, 5344
fructans 8306
magnesium 2045, 4769
manganese 627
nitrogen 620, 1375, 3942, 4002, 7132
nucleotides 3948
phosphorus 627, 2045, 4002, 8014
potassium 2045, 2051, 3932, 4002, 4769, 4775, 8018
proline 4769
protein 6291
proteins 2049, 3178, 3939, 3948, 8084
sodium 2045, 2051, 3932, 4775
starch 6291
sucrose 6291
sugars 4769
sulphur 34
zinc 2451
damage 1426
development
mineral nutrition 5438
temperature 4772

Wheat *cont.*
leaves *cont.*
development *cont.*
water stress 4772
electric potential 1426
enzymes 620, 655, 2034, 2049, 2490-2491, 3930, 3939, 3943, 4767, 5446, 5449, 6291, 6295, 6300, 6320, 7181, 8060, 8070, 8084
flag leaf
composition
calcium 3910
chlorophyll 72, 674
magnesium 3910
nitrogen 131, 3910
phosphorus 3910
potassium 3910
zinc 7148
heat shock 71
removal 1993
water content 4713
fluorescence, temperature 7946
gas exchange 2049
greening 2477
growth 2040
growth regulators 3948
light 8071
models 1419
heat shock 71
metabolism
ascorbic acid 6295
carbohydrates 6295
chlorophyll 8307
fructans 6297, 8306
glutathione 6295
heat shock proteins 71
hydrogen peroxide 6295
lipids 649
nitrogen 7170, 7925
proline 1417
proteins 2503
number 4828
numbers
temperature 4772
water stress 4772
osmoregulation 2492
measurement 7217
protoplasts
light 4766
metabolism 4766
reflectance 700
removal 60, 3961, 4750, 8045
senescence 3939, 5464, 8084
enzymes 7419
stomata, air pollution 4781
stomatal resistance 2049, 5450
temperature 4828, 6295
heat sums 4772
measurement 3967
thickness 1426
ultrastructure 74
uptake, herbicides 6281
water content 1423, 2049, 3178, 3192
water relations 3178, 4756
water stress 7217
width 2495
light 2048, 3187
far red light 3960, 4766, 8070-8071
interception 2434, 6334
red light 3191, 3960, 4766, 7190, 8070-8071
use efficiency 1438, 8790
light intensity 64, 649-650, 2478, 2497, 6296
lodging 1375, 1990-1991, 3449, 5409, 7128, 7163
growth regulators 3136
models 6249
metabolic inhibitors
cycloheximide 3195, 6296
dactinomycin 3195
metabolic regulators, calcium 4753
metabolism
amino acids 2036, 7340, 7940
ascorbic acid 6295
betaine 70
carbohydrates 70, 1414, 2036, 2479, 6295, 7340
pollution 6291
carboxylic acids 2038
chlorophyll 664, 6298, 8071, 8307

Wheat *cont.*
metabolism *cont.*
dodecanoic acid 2037
fatty acids 49, 5458
fructans 2491, 3175, 5440, 6296-6297
glutathione 6295
growth regulators 4329, 7200
heat shock proteins 71
herbicides 641, 2038, 2473, 3068-3069, 3176, 4656
hydrogen peroxide 6295
hydroxamic acids 663
lectins 7205
lipid peroxidation 5433
lipids 73
molybdenum 3172
mugineic acid 8308
nitrogen 1381, 2036, 3943, 4742, 7925
nucleic acids 6325, 7183
phospholipids 3945, 5458
phosphorylation 4766
polyamines 4754
potassium 3062
proline 70, 1417, 3936, 7940
proteins 1393, 1925, 3939, 4199, 4773-4774, 6325, 7183
pollution 6291
protochlorophyllide 5449
sterols 5458
sucrose 3175, 6296
sugars 1381, 4205
sulphites 48
ureides 2490
mineral nutrition 4650
aluminium 2484, 2488, 3064, 3197, 6292, 8053, 8057
tolerance 659, 1416, 3173, 6290, 6293, 7174, 7176
toxicity 653, 655-658, 1437, 2485-2486, 3931, 6294, 7172-7173, 7175
cultivars 3934
boron
deficiency 7147
toxicity 7171
cadmium 4751
toxicity 4749, 4751, 6291
calcium 1425, 2486, 3932, 4753, 7168, 7172, 8053
deficiency 4750
chloride 2180, 3907
computer software 7947
copper 2501
foliar application 4746-4747
sources 4747
diagnostic techniques 3063
iron 3150, 5437
deficiency 7490
reviews 4972
sources 6154
lanthanum, toxicity 656
lithium 3914
magnesium 653, 2486, 6323, 7172
deficiency 1392
manganese 627, 2013-2014, 3914
cultivars 2452
deficiency 2452, 3930
foliar application 4746
tolerance 6293
toxicity 2030
models 2486, 7947
molybdenum 3181, 3914
nitrogen 21, 37, 64, 266, 619-620, 622, 624, 1392, 2032-2033, 2035, 2051, 2482-2483, 2487, 2497, 2514, 2732, 3045, 3172, 3178, 3933, 5438, 5444, 6161-6162, 8073, 8082
deficiency 4750, 7170
models 698
sources 2034, 3609, 4780, 6323, 8050, 8054, 8059
toxicity 8054
phosphorus 21, 37, 76, 627, 2033, 2035, 3907, 4655, 6628
sources 1617
potassium 21, 37, 653, 1392, 2033, 3062, 3932, 4754, 7168-7169
use efficiency 8052
silicon 75

Wheat *cont.*
mineral nutrition *cont.*
sodium 3932, 7168
sulphur 21, 150, 4751, 5341
trace elements 21
zinc 1310, 2015, 2031, 2489, 3150, 3914, 4737, 5439, 7148
deficiency 965, 1396, 2451, 4752
mineral uptake
aluminium 657, 3173
boron 8056
cadmium 3198, 4751, 7489
caesium 8049
calcium 659, 1416, 2450, 3532, 3972, 7053, 8053
growth stages 660
chloride 3199, 3907
copper 46, 3147, 3532
growth stages 660
elements 4776
growth stages 8056
heavy metals 5660
iodine 8056
iron 46, 1440, 3067, 3150, 5437, 7490
growth stages 660
magnesium 2450, 3532, 6323, 7053
growth stages 660
manganese 46, 627, 3147, 3198, 3532, 3935
growth stages 660
nitrates 7189
nitrogen 27, 30-31, 39, 43, 47, 266, 525, 539, 611, 615, 619, 622, 625, 662, 960, 1375, 1388, 1390, 1392, 1440, 2002, 2033, 2052, 2178, 2440, 2442, 2450, 2482-2483, 2487, 2735, 2902, 3045, 3131, 3147, 3609, 3905, 3972, 4726, 4785, 5412-5413, 5418, 6253-6254, 6256, 7132, 7135, 7144-7145, 7163, 7208, 7483, 7990, 7992, 7998, 8022, 8025, 8051, 8058, 8768
growth stages 660
models 654, 698
sources 3275
phosphorus 30-31, 43, 236, 539, 611, 626, 1318, 1440, 2033, 2052, 2450, 3147, 3907, 3972, 4748, 5418, 7144-7145, 7177, 7990, 8022
growth stages 660
sources 1617
potassium 30-31, 43, 539, 611, 1392, 2033, 2450, 3062, 3147, 3199, 3532, 3972, 5418, 5475, 5515, 7144-7145, 7189, 7196, 7207, 7902, 7990, 8022, 8755
growth stages 660
models 661
promethium 3844
radionuclides 4783
sodium 3532
sulphur 3609, 3907, 4751, 8022
growth stages 660
trace elements 4776
zinc 35, 46, 2015, 2031, 2481, 3147, 3150, 3198, 3532, 4737, 5439, 8022, 8056
growth stages 660
mitochondria, ultrastructure 4778
models 8090
mulches 6235
bitumen emulsions 5402
crop residues 1987
dust 1526, 6240
maize stover 1526
polyacrylamide 5402
Premna mucronata 6246
rice straw 6246, 6264
straw 516, 6240
urea formaldehyde 5402
multiple cropping 7056
Brassica nigra 3043
buckwheat 1907
groundnuts 4640-4641, 8379
maize 1907, 5325, 6146, 6252, 7902, 8734
Pennisetum glaucum 1907
Phaseolus vulgaris 6252

Wheat *cont.*
multiple cropping *cont.*
potatoes 5325
rape 1907
rice 513, 1538, 6140, 7053
sorghum 1907, 4640-4641, 6252
soyabeans 1611, 1907, 3910, 6252, 7902
turnips 1907
Vigna radiata 5325, 6140
Vigna unguiculata 8734
mycorrhizas 3206, 3976, 3978, 4787
nitrification inhibitors 27, 624-625, 7129, 7140, 8008
nitrogen fixation 695, 2745
estimation 696
nodulation 2055
oxygen 6320
pesticides 3146
pests
Bandicota bengalensis 1410
Diuraphis noxia 1412
Euxoa auxiliaris 8040
Heterodera avenae 8304
Heterodera zeae 8041
kangaroos 8039
Meloidogyne incognita 8041
organic farming, UK 6276
Rhopalosiphum padi 1411
Sitobion avenae 1411
pH 5439
phenology 4828, 5393
cultivars 2041
temperature 2041
phloem, metabolism, proteins 4745
photoperiod 57, 5452, 6317
photorespiration
hydrogen peroxide 7064
inhibitors 7340
photosynthesis 2028-2029, 3921, 3976, 3986, 6286
air pollution 4780-4781, 8084
carbon dioxide 2513, 3817, 4779, 5432, 8046, 8332
carbon dioxide enrichment 1656
diurnal variation 6285
electron transfer 649-650, 2027, 5433, 5444
enzymes 4767, 6304
gas exchange 2027, 2649, 4743, 5432, 8084
measurement 6332
apparatus 6284
water stress 69
growth regulators 674
growth stages 5434, 7166
herbicides 5431
irradiation 1314, 2057
isotope fractionation 68, 5344, 6306
light 3171, 5433
light harvesting complexes 532, 7166, 7921
light intensity 5432, 6296, 8332
mineral nutrition 2030, 5444
net assimilation rate 2057, 5436
oxygen 2478
photoinhibition 649-650, 2478, 3194, 5433
photosystem I 7166
photosystem II 650, 1314, 5431, 5433, 5464, 8084, 8407
estimation 4069
plant density 5434
salinity 5468
temperature 72, 649, 2513, 3171, 3194, 3970, 4803, 5432-5433, 5464
water relations 4756
water stress 72, 1433, 2049, 3184, 3963, 4743, 4767, 4770, 4787
phytochrome 2500, 3959
plant competition
growth stages 692
Lolium multiflorum 692
weeds 43-44, 637, 642-643, 2470, 3164-3165, 3897, 3925, 4196
models 1406
plant density 12, 15, 60, 692, 3047, 3897, 5434, 6240, 7056, 7128
determination 7219
statistical analysis, sampling 81

Wheat *cont.*
plant height
cultivars 3916
growth regulators 5407
pollen
development 2496
enzymes 3930
ultrastructure 2496
pollen germination 2496
pollination 1425
cleistogamy 1424
pollution
cadmium 3843, 4785, 6291, 7942
caesium 2511, 7078
cobalt 3843, 7942
copper 4785
heavy metals 1936, 5660, 6635
iodine 2395
lead 4785
nickel 4785
promethium 3844
radionuclides 2056, 2512, 3844, 4782-4783, 5354, 7078
precipitation 32, 554, 2429, 3190, 4675, 6223, 6246, 7186, 7198, 8072
production, Lesotho 8312
production possibilities, Argentina 63
protoplasts
isolation 3957
regeneration 3958
reclamation 1609
red light 2500
relative humidity 6318
relay cropping
Pennisetum glaucum 948
potatoes 5325
rice 513
soyabeans 1299
Vigna radiata 5325
remote sensing 2517-2519, 5714, 7195, 7373, 7957
ground cover, estimation 5479
identification 7087, 7951
Italy 2058
radar 7950-7951
yields, estimation 7214
respiration 3986, 4198, 7165, 8047, 8305
carbon dioxide 2513, 4779
detergents 5455
herbicides 6279
inhibitors 7340
measurement 5477
mineral nutrition 2030, 8050
temperature 72, 2513, 5432
root exudates 965, 4752, 6314
amino acids 3199
chloride 3199
hydroxamic acid 5437
phenolic acids 3532
potassium 3199
siderophores 6154, 7490
sugars 3199
root hairs 1318
root systems 8065
root tips
cell membranes, damage 2488
cell walls, damage 2488
rooting depth 6, 1715, 3183, 4757
roots
accumulation
aluminium 657
cadmium 6291
aeration 5462
anatomy 8081
anoxia 3199, 8081
bacteria 2447
Azospirillum brasilense 3977, 4786
Bacillus subtilis 6331
nitrogen fixing bacteria 6330
Nostoc 6330
Pseudomonas fluorescens 6331
Streptomyces 6331
Xanthomonas 6331
branching 2487
cell membranes
electric potential 4786, 6288
ion transport 6288, 7196
permeability 4752
composition
aluminium 657

Wheat *cont.*
roots *cont.*
composition *cont.*
calcium 3932
copper 3840, 4735
elements, determination 3207
fatty acids 42
hydroxamic acid 5437
iron 3840
nitrogen 8001
organic acids 6314
potassium 3840
sodium 3932
zinc 3840
cutting 5458
density 7208
determination 5478
depth 1975, 6171, 8001
distribution 1909, 3182, 3971, 4757, 8001, 8062
determination 5478
soil compaction 2052, 6181
water stress 680
energy relations 7165
enzymes 2034, 2054, 2485, 2490, 3187, 3943, 4785, 5446
growth 656, 658, 2054, 3182, 3193, 3840, 3931, 3978, 5473, 6171, 6292, 7173, 7209, 8045
cultivation 8
fertilizers 2015
flooding 6322
herbicides 42
measurement 8087
mineral nutrition 3173, 3197
soil compaction 2052, 3084, 3200
soil pH 3197
soil properties, reviews 5474
water stress 680, 6322
growth regulators 695, 3187
hypoxia 3972, 5462
inoculation
Agrobacterium 2055
Azospirillum 2055
Azospirillum brasilense 695
Escherichia coli 2055
Pantoea agglomerans 3204
Rhizobium 2055
ion transport 658, 5515
length 4757
measurement 7945
metabolism 5455
polypeptides 7202
proteins 7175-7176
salinity 7202
mineral nutrition 6292
pruning 8045
respiration 5477, 7165, 8045, 8050, 8057
seminal roots 2487
senescence 4750, 5458
size 3084
soil compaction 8793
temperature 4756, 6323
tropisms, gravitropism 675, 8065
ultrastructure 5455
rotations 32, 263, 510, 539, 1933, 2429, 4639, 4709, 8010, 8299, 8304, 8798, 8807
barley 2, 84, 601, 1372, 1601, 1979-1980, 2178, 2428, 2430, 3124, 3808, 7062, 7117
Cajanus cajan 6128
cereals 1, 1979, 2728
cotton 1176
fallow 1, 29, 512, 1405, 1971, 3124, 4710, 6232, 7117
fodder beet 2728
fodder crops 6143
grasses 1, 2431, 2728, 3886, 5498, 6226, 7117
groundnuts 5025, 6128
legumes 84, 2728, 3886, 6143, 6226, 7117
Lens culinaris 2902, 3887, 4710
Linum usitatissimum 3, 601
Lupinus 3, 601
Lupinus albus 5897, 7988
Lupinus angustifolius 3604-3605, 4712, 5897
Lupinus cosentinii 5897

Wheat *cont.*
rotations *cont.*
Lupinus luteus 5426
maize 9, 18, 84, 1372, 1394, 1611, 1987, 2100, 2178, 3138, 3808, 6129, 7482
Medicago polymorpha 4712, 7987
Medicago sativa 2, 1372
oats 84, 601, 1979-1980, 3604, 3887, 6129, 7988, 7998
Ornithopus sativus 601
peas 1402, 1971, 2430, 2902, 3138, 6234, 7988
Pennisetum glaucum 5697, 6128-6129, 7051
Phaseolus vulgaris 1971
potatoes 1601, 1979-1980, 2728, 6143, 7062
rape 601, 2430, 3887, 7998
rice 1538, 2013, 5400, 5621, 5633, 5640, 6137, 6264
rye 29, 84
sorghum 257, 1611, 3044, 3804, 6128-6129, 6232, 7992
soyabeans 3044, 3804, 5772, 6128, 6645
sugarbeet 9, 84, 1372, 2428
sunflowers 3808, 3898, 6225
tomatoes 1394
Trifolium 601, 2431, 5498
Trifolium alexandrinum 6129
Trifolium pratense 1372, 2428
Trifolium subterraneum 1977
Vicia 7988
Vicia faba 2, 9, 1372, 1980, 2428, 2902, 7988
Vigna radiata 6128
Vigna unguiculata 6257
row orientation 692, 2434
salinity 67, 75, 688-690, 1332, 2051, 2508, 3082, 3971, 4206, 4667, 4764, 4776, 4835, 5469-5471, 5474, 6327, 7202-7205, 7926, 8079-8080
reviews 1435
salt tolerance 75, 1435, 3196, 4835, 5468, 5472, 6327
cultivars 1436, 2508, 3154
seed anatomy 5451
seed development 1422, 7197
seed dormancy 2039, 2732, 4970, 5441
storage 4971
temperature 4971
seed germination 1610, 3047, 4760, 4975, 8076
allelopathins 6554
allelopathy 693, 1333-1334, 2043, 3076
anoxia 4952
culture media 7118
DIMBOA 4859
enzymes 54, 3186, 3937, 3941, 4952, 5451, 7178-7180
factory effluents 6307
growth regulators 2044, 3186, 3946, 7192
herbicides 639, 1409, 4656
humidity 7186
insecticides 4759
metabolism
hydrogen peroxide 7180
nucleic acids 7183
proteins 50-51, 7194, 7204
starch 4952
tryptophan 3174
moisture content 2438
mycotoxins 2737
salinity 50, 75, 7203-7204, 8079
seed injury 2494
seed treatment 606, 2039, 6625, 7118, 7184-7185
sowing methods 603, 1299
storage 56, 972, 3856, 3937
temperature 3944, 4971
water relations 7118
water stress 3964
seed injury 2494, 3900, 3927
seed inoculation
Azospirillum brasilense 2745, 3205, 3976, 4787, 7212
Azospirillum lipoferum 2745
Bacillus polymexa 7212

Wheat *cont.*
seed inoculation *cont.*
Bacillus subtilis 6331
Pseudomonas 1440-1441
reviews 3090
Pseudomonas fluorescens 6331, 7084
Streptomyces 6331
Xanthomonas 6331
seed maturation 5441
seed production 614, 1995, 3127, 7995
diseases 1384
fertilizers 1384, 4727
Kenya 1995
Russia, Siberia 265
seed quality 265, 607, 1389, 3047, 3127, 4760
determination 1443
organic farming 4714
sunspots 3203
seed set
growth regulators 4768
water stress 4768
seed size 971, 3127, 3893, 6327, 7120
seed testing 971, 1610, 4975
viability 6336
vigour 5480
seed treatment
accelerated aging 3856
coating 3890
fungicides 606, 1992, 2026, 4749, 5397, 6308, 7120, 8044
growth regulators 11, 1423, 1992, 2044, 3126, 3191, 3891, 4764, 7119, 7191-7192
insecticides 1970, 6625
irradiation, infrared radiation, models 80
nonionic surfactants 7184
plant extracts 6237
polyethylene glycol 50
potassium 7185
soaking 605, 607, 5396, 6237
soaking/drying 6238, 6308
sodium chloride 50
sprouting 605, 5396
temperature 2039, 5465, 7118
seed weight 971, 1389, 4761
seedbed preparation 1969, 1975, 4709
seedling emergence 1374, 3126, 4760-4761, 6243
herbicides 639, 4656
seed injury 2494
seed size 3893
seed treatment 606, 3890, 6238, 7185
sowing depth 3129, 3893
temperature 3944
seedlings
composition
chlorophyll 4749
lectins 7205
nitrogen 2054, 4749
enzymes 663, 4749, 4785, 7191
establishment 2454
growth 75
allelopathins 6554
allelopathy 693, 1334, 2043, 3076
factory effluents 6307
salinity 7203
temperature 3896, 3944
growth regulators 695
heat shock 71
height 633
light, red light 3191
metabolism
ethylene 3455
growth regulators 7200
heat shock proteins 71
hydroxamic acids 663
lectins 7205
nucleic acids 7183
proteins 4773
tryptophan 3174
salinity 75
temperature 5465
seeds
anoxia 4952
colour 3927
composition
elements 1327
enzyme inhibitors 53
gliadin 6310

Wheat *cont.*
seeds *cont.*
composition *cont.*
gliadins 4727, 6311
gluten 6239, 7193
glutenins 6311
nitrogen 2587, 2902
oils 1328
phosphorus 2587, 7187
potassium 2587
proteins 270, 562, 1389, 1393, 3181, 6239, 6265-6266, 6408, 7197
determination 699
starch 1389
development 7194
diseases 3927
dormancy 6318
drying, temperature 3900
embryos
composition, proteins 7194
differentiation 1420
enzymes 54, 5447
growth 1420
metabolism, proteins 50, 7194
endosperm 6310
cell division 1422
composition, proteins 2498, 3189, 3952, 6313, 8066
development 1422, 7197
enzymes 3940, 8075
metabolism, starch 8075
temperature 8075
ultrastructure 7197
enzymes 51, 53, 2490, 3937, 4244, 4952, 5454, 7069, 7179, 7181, 7191-7192
gene expression 5443
growth regulators 5454
imbibition 605, 3890, 5451, 5465, 7204
irradiation, gamma radiation 4760
mechanical properties 2741
friction 3954
metabolism 3937
heat shock proteins 8076
nucleic acids 5441
proteins 51, 1393, 8076
starch 4952
tryptophan 3174
moisture content 2741
determination 3210, 7221
environment 5460
physical properties 6313
preharvest sprouting 56, 3181, 5441
cultivars 3128
provenance 7995
quality 6266
storage 4971
containers 972, 1444, 3856
temperature 972
temperature 8076
translocation
nitrogen 2482
sucrose 6287
ultrastructure 1328
viability 1444, 2438
storage 3856
vigour 3964, 4760, 6308
weight 6266, 7190
shading 3961, 8047
shelterbelts 2406, 3861
shoot meristems, cell division, water stress 7199
shoots
composition
magnesium 6323
phosphorus 7187
zinc 7148
enzymes 3187
growth regulators 3187
inoculation, *Pantoea agglomerans* 3204
sloping land 7483
soil
aluminium 76, 1437, 3197, 8024
calcium 3840, 4737
copper 2053
erosion 6235
models 2510, 2744, 8083
magnesium 4737

Wheat *cont.*
soil *cont.*
manganese 2053, 3935
nitrogen 529, 602, 662, 670, 2000, 3134, 3145, 3180, 3889, 3903-3904, 5410, 6223
models 698, 1386
organic matter 1933
phosphorus 1430, 3054, 3143, 3145, 3604-3605, 3886, 5330-5331, 6182, 6259
potassium 5330-5331, 5475, 7169, 8024
sodium 4775
zinc 1914, 2053
soil amendments
dolomite 3060, 7151
factory effluents 7917
gypsum 602, 6145, 7152
lime 38, 628, 691, 1977, 2017, 3056, 3060, 3141, 3844, 3908, 5334, 5473, 6645, 7151, 8024
residual effects 627, 3450
magnesian limestone 6146
neem seed cake 7129
pyrites 6145, 7129
residual effects 5426
straw 5426
sulphur 6145
wheat straw 5424
zeolites 2736, 4783
soil compaction 694, 1336, 1609, 1934-1935, 2052, 3084, 3182, 3200, 3841, 4761, 6181, 6230, 7208, 8793
soil conditioners 5402, 8025
soil conservation 1348, 2406, 2427, 8299
Mongolia 1349
soil density 1374, 7904
soil erosion 8312
soil fertility 1372, 1609, 6236, 6262, 8007, 8794
soil inoculation
Azospirillum, strains 8085
Azospirillum brasilense 8086
Azospirillum lipoferum 8086
Azotobacter 7329
Azotobacter chroococcum 2016
bacteria 150
Glomus fasciculatum 3206, 3976
Pseudomonas 1441
reviews 3090
Pseudomonas fluorescens 7084
soil pH 627, 691, 922, 1430, 2053, 2509, 3197-3198, 5330, 5474, 6157, 7209, 8024
soil properties 1607, 4709
soil temperature 3182, 3193, 3944
soil types 32, 47, 77, 236, 1392, 1438, 2178, 2447, 4737, 4782, 5473-5474, 6125-6127, 6182, 8794
sodic soils 4775
soil water 236, 1332, 3145, 6317, 6319, 7211, 7904, 8807
models 65
soil water content 64, 72, 150, 236, 521, 554, 602, 2504, 3971, 5406, 6232, 6321, 8299
soil water potential 4756
solar radiation 3190
models 3975
use efficiency 40
sounds 7210
sowing date 31, 57, 608-609, 958, 1376, 1979-1980, 1983-1984, 2427, 2433, 3126, 3182-3183, 3894-3895, 4002, 4709, 4715, 4717, 4719, 4724, 5398-5399, 6127, 6222, 6239, 6245, 6334, 7056, 7121-7122, 7134, 7162, 7198, 7998-7999, 8008
cultivars 14, 3896, 4718
models 7123
sowing depth 606, 3129, 3892-3893, 7993
sowing methods 43, 1969, 2427, 2434, 3130, 5396, 7120, 7129, 7908
broadcasting 1299, 1985, 4715-4716, 5400
direct sowing 603, 1299, 1377, 4715, 5400, 6233
drilling 1985, 3125

Wheat *cont.*
sowing rates 12-13, 15, 25, 43, 1299, 1979-1982, 2011, 2427, 2433, 3164-3165, 4709, 4715-4716, 5398, 6127, 6222, 6239-6241, 6243-6244, 6270, 7120-7122, 7134, 7161, 7481, 7488, 7986, 7996-7997
space science 5432
spacing 13, 15-16, 43, 692, 3047, 3897, 4709, 5398, 5401, 6240, 6242, 6244, 7206
spikelets, position, models 5470
spikes
accumulation, nitrogen 2497
composition
copper 4735
nitrogen 620
development 1382
mineral nutrition 5438
models 2042
differentiation 2040
growth 2497
models 2042
growth regulators 4768
removal 7167
shading 3961
statistical analysis 8089
stems
accumulation
cadmium 6291
carbohydrates 61
composition
carbohydrates 1414, 7167
nitrogen 620
enzymes 5448
sterility, cultivars 6270
stomatal movement, water stress 69
stomatal resistance 3179, 4767, 6321
diurnal variation 6285
water stress 55, 69, 1433, 3963
straw
composition
copper 4735
crude protein 3123
iron 3150
nitrogen 30, 4710, 7144
phenolic compounds 2499
phosphorus 30, 7144
potassium 30, 7144
zinc 35, 3150, 4737
straw burning 6236
stubble
burning 7, 4711
height 4728
water harvesting 4728
submergence, models 3079
sunspots 3203
temperature 57, 64, 71-72, 269, 1418, 1430, 1434, 2041, 2472, 2506-2507, 2513-2514, 3175, 3190, 3896, 3962, 3970, 4198, 4675, 4756, 4772, 4803, 5463-5464, 6317, 6323, 7210-7211, 7946, 8075-8077, 8082, 8088
growth stages 3968
heat sums 2429, 4828, 7198
models 58
models 2694, 3975
reviews 2050
threshing, damage 2438
tillering 672, 2454, 3126, 7190
cultivars 1431, 8011
cultivation 4713
fertilizers 4713
growth regulators 5407
light 8071
light intensity 64
mineral nutrition 64, 2487, 5438
soil compaction 7208
soil water content 64
sowing rates 6243
temperature 64
water stress 66
tillers
development 2026
mineral nutrition 5438
removal 66
tissue culture
cryopreservation 3956
culture media 1428

Wheat *cont.*
tissue culture *cont.*
embryo culture 679, 1428, 2502, 6315, 8067
embryos 2047
enzymes 663
growth regulators 62, 679, 1428, 2501, 3955, 6315
metabolism
growth regulators 7201
hydroxamic acids 663
organogenesis 3955
oxygen 6315
regeneration 2501, 8067-8069
regenerative ability 2047, 3955
somatic embryogenesis 2502
topography, slope 7483
translocation
amino acids 45
cadmium 2391
calcium 6292, 6323, 8053
carbohydrates 61, 1414, 2479, 4765
carbon 8048
copper 2391
cultivars 5436
growth regulators 3950, 4329
herbicides 4656
lead 2391
magnesium 6323
manganese 45, 627
nitrogen 652, 695, 2482, 4744, 8048, 8058
photosynthates 16, 2480, 3921, 6289, 8047
potassium 6323
proteins 1415, 4745
radionuclides 2056
rubidium 45, 651
source sink relations 652, 1993, 2029, 2479, 3929, 3962, 4745, 5435-5436, 7167, 8047-8048, 8071
strontium 45, 651
sucrose 6287
zinc 45, 2031, 2391
transpiration 2057, 3071, 3179, 5344, 5411, 7189, 8623
antitranspirants 8003, 8021
growth regulators 1423
Triticum boeoticum 6286
Triticum dicoccoides 8046
Triticum dicoccon
fertilizers, nitrogen, application date 7997
herbicides, dichlorprop 7997
seed germination, metabolism, tryptophan 3174
seedlings, metabolism, tryptophan 3174
seeds, metabolism, tryptophan 3174
sowing rates 7997
weed control
herbicides 7997
manual weed control 7997
Triticum dicoccum 8046
fertilizers, nitrogen 7996
mixtures 7986
sowing rates 7986, 7996
Triticum durum
anatomy 2046
chemical composition
ash 8787
fibre 8787
lipids 8787
nitrogen 8073
proteins 8787
climate 8798
cold resistance, growth regulators 7119
composition
gliadins 6311
glutenins 6311
cultivars
Albania 2455
Canada, Manitoba 6283
Ethiopia 2018
India, Haryana 1424
Italy 2021-2022, 3919, 6631, 7154, 7156, 7160, 8026, 8028, 8030
Spain 3153
Barilla 7160

Wheat *cont.*
Triticum durum cont.
cultivars *cont.*
Tiber 3924
cultivation
depth 1373
harrowing 7
no-tillage 1373
ploughing 7, 1373
ridging 1996
rotary cultivation 1373
straw incorporation 7
damage, responses 5348
diseases
Cercosporella 3126
Leptosphaeria nodorum 6283
Rhizoctonia cerealis 2021
drainage 1996
drought 8073
drought resistance 2046
evaluation 700
enzymes
amylases 3912
β-fructofuranosidase 3912
glucose-6-phosphate dehydrogenase 51
glutamate dehydrogenase 3186
ligases 3912
oxidoreductases 51
phosphotransferases 51
transferases 51
fertilizers
boron, foliar application 3912
nitrogen 23, 1388, 3121, 8086
application date 7
field experimentation, border effects 3092
genotype environment interaction 6269
grain
composition
amino acids 3953
gluten 2022
nitrogen 1388
proteins 2022
starch 3912
sugars 3912
development 3912
enzymes 3912
quality 2021
determination 1443
growth regulators
benzyladenine 3186
2,4-D 679, 3186
fusicoccin 3186
kinetin 3126
paclobutrazol 3126
tetcyclacis 3126
growth stages, classification 268
intercropping, *Trigonella foenum-graecum* 3121
irrigation 40
growth stages 3133
leaves
osmoregulation 7217
reflectance 700
light
interception 2434
use efficiency 8790
mineral nutrition, nitrogen 8073
mineral uptake, nitrogen 1388
mycorrhizas 3206
photosynthesis
carbon dioxide 8046
isotope fractionation 6306
plant competition, weeds 44, 4196
pollination, cleistogamy 1424
remote sensing 7216, 7957
Italy 2058
rotations 8798
sorghum 3044
soyabeans 3044
row orientation 2434
salinity 7204
seed germination 1610
culture media 7118
enzymes 3186
growth regulators 3186
metabolism, proteins 50-51, 7204
salinity 50, 7204
seed treatment 7118

Wheat *cont.*
Triticum durum cont.
seed germination *cont.*
water relations 7118
seed quality, determination 1443
seed testing 1610
seed treatment
growth regulators 3126, 7119
polyethylene glycol 50
sodium chloride 50
temperature 7118
seedling emergence 3126
seeds
embryos, metabolism, proteins 50
enzymes 51
imbibition 7204
metabolism, proteins 51
soil amendments
factory effluents 7917
lime 691
soil inoculation
Azospirillum brasilense 8086
Azospirillum lipoferum 8086
Glomus fasciculatum 3206
soil pH 691
sowing date 3126, 3895
sowing methods 2434
direct sowing 8000
stubble, burning 7
tillering 3126
tissue culture
embryo culture 679
growth regulators 679
undersowing
Medicago polymorpha 44
Scorpiurus muricatus 44
water use 3133
water use efficiency 3133, 6306
waterlogging, cultivars 2018
weeds
Medicago polymorpha 44
Scorpiurus muricatus 44
yield components 6283, 8073
cultivars 2018
Triticum monococcum 3952
cultivars, Italy 7986, 7996
fertilizers, nitrogen 7996
mixtures 7986
seed germination, metabolism, tryptophan 3174
seedlings, metabolism, tryptophan 3174
seeds, metabolism, tryptophan 3174
sowing rates 7986, 7996
Triticum spelta 7116
cultivars
Austria 5709-5710
USA, Ohio 5335
Lueg 6274, 6632
dry matter accumulation 39
dry matter distribution 39
fertilizers, nitrogen 39
mineral uptake, nitrogen 39
Triticum tauschii 3196
Triticum turgidum 3196, 7197
tropisms
geotropism 3951
growth regulators 3950
gravitropism 675
undersowing
Medicago polymorpha 44
Scorpiurus muricatus 44
vernalization 1382, 4772, 5452, 5466, 6325, 7200
cultivars 3969, 6245
water balance 2492
water conservation 1348, 1526
water relations 3192, 4756, 5450, 8003
reviews 1330
water requirements 6319, 7070
water stress 55, 66-70, 72, 675, 680, 683-685, 688, 1432-1433, 2049, 2503, 3182, 3184, 3192, 3962-3963, 3965, 4729, 4743, 4756, 4767-4770, 4772, 4780, 4787, 5408, 5461, 6258, 6320-6321, 7199, 7217
growth stages 4721
models 681
reviews 1330
water supply 1344, 6319
water table 1332

Wheat *cont.*
water uptake 3905, 4757, 6230
models 7182
sowing date 7999
water use 13, 516, 523, 611, 1931, 2493, 2504, 3071, 3082, 3133, 3899, 3903-3904, 4729, 4757-4758, 5406, 6232, 7148, 8299
harvest index, cultivars 1398
models 3180
water use efficiency 6, 13, 55, 68, 516, 611, 1433, 1988, 3071, 3082, 3133, 3145, 4713, 5411, 5708, 6306, 7125, 7141
carbon dioxide 6346
cultivars 6305
growth regulators 613
harvest index, cultivars 1398
waterlogging 3193, 5446, 5462, 5474, 7938
cultivars 2018
weather, models 671
weed control
biological control 6278
cultivation 1985, 4720, 6236
cultural control 1405, 4740, 7988
herbicides 640, 642, 1405, 1407, 1981, 2011, 2471, 3164, 3166, 3371, 3926, 5416, 6229, 6236, 6277, 7997, 8038
manual weed control 643, 1969-1970, 1981, 1985, 2019, 3371, 5394, 5416, 7997, 8038
weeds
Avena fatua 642, 1406, 2008, 3897, 3925
Avena ludoviciana 6277
Bromus tectorum 1405
Chenopodium album 6277
Coronopus didymus 6277
Fumaria arvensis 6277
Lolium multiflorum 2470
Lolium temulentum 8038
Malva pusilla 6278
Medicago polymorpha 44
Melilotus indica 6277
organic farming, UK 6276
Phalaris minor 1407, 1538, 6277, 8038
Plantago lanceolata 8038
Poa annua 2470
Scorpiurus muricatus 44
Setaria viridis 637
Spergula arvensis 6277
Vicia faba 8038
winter hardiness 6326, 7940
yield components 40, 609, 635, 684, 1456, 1609, 2444, 3921, 4828, 5469, 7488, 8033, 8044, 8073
cultivars 647, 2018, 3920, 6270
diseases 647
fertilizers 618, 3136
growth regulators 3136
spacing 6242
statistical analysis, sampling 81
temperature 3968
water stress 4787
yield correlations 2429, 3913, 5406, 6243, 7138, 7488, 8031, 8034, 8058
Czech Republic 8794
Germany 1429
yield forecasting 12, 2743, 7188, 8072
Australia 5476
dendrochronology 6333
models 82, 2520, 2697
remote sensing 2520, 3858
yield losses, models 8043
yield targets 2427
yields
Canada, Saskatchewan, models 3145
Chile 3885
climate 2743
models 3975
economics 1605
estimation 7219
equipment 7132
remote sensing 2519, 7214
models 65, 1430, 3903-3904, 6191
seasonal variation 7213
stability 2024, 3152
Russia 1

Wheat *cont.*
yields *cont.*
trends
Canada, Saskatchewan 6223
India 3803
Wind
barley 2571
books 5390
maize 143, 818-819
potatoes 5200
rice 912, 918
Winter hardiness, reviews 7940
Xanthosoma atrovirens, cultivars, Puerto Rico 8598
Xanthosoma caracu, cultivars, Puerto Rico 8598
Xanthosoma sagittifolium
corms, composition, starch 1165
flowering, induction 3697
flowers, morphology 3697
fruits 3697
growth regulators, gibberellins 3697
seed morphology 3697
shading 6887
Xanthosoma violaceum, cultivars, Puerto Rico 8598
Yams (*see Dioscorea)*
Yield factors, books 5385
Yield forecasting
agricultural meteorology 2407
models 1351
remote sensing 7085
reviews 927
Yields
assessment, West Africa 4685
climatic change, models 4689
models 1319, 2408, 6191, 7931
seasonal variation, models 7213
soil compaction, models 3085
Yugoslavia
potatoes, cultivars 405-406
remote sensing 7956
sunflowers, cultivars 452
Zambia
cassava, farming systems 8149
Cicer arietinum, cultivars 1097
groundnuts, crop husbandry 8362, 8366
land use 1344, 8149
maize, farming systems 8149
Zea mays (*see* Maize)
Zea mexicana, cutting height 262
Zimbabwe
groundnuts 8363
reports, Cotton Research Institute 6207
Zizania palustris
growth regulators
abscisic acid 2573-2574
gibberellins 2574
metabolism, proteins 2573
seed germination
growth regulators 2574
seed treatment 2574
seed treatment
drying 2574
stratification 2574
seedlings
accumulation, abscisic acid 2573
metabolism, proteins 2573
water stress 2573
seeds
embryos
accumulation, abscisic acid 2573
metabolism, proteins 2573
water stress 2573
water stress 2573

LIST OF SERIALS ABSTRACTED

Listed below are the titles of the serial publications (excluding most annual reports and conference proceedings) abstracted during 1993 for this journal. All the titles are given in full, except abbreviated titles taken from secondary publications such as *Referativnyi Zhurnal*.
Many other serials were scanned during 1993 but no relevant articles were selected. A full list of all the serials scanned for items suitable for abstracting for the CAB ABSTRACTS database and the whole range of CABI's abstract journals is given in the *CAB International Serials Checklist, 1988 edition*. The publication includes ISSNs and publishers' addresses.

Acta Academiae Agriculturae ac Technicae Olstenensis, Aedificato et Mechanica.
Acta Academiae Agriculturae ac Technicae Olstenensis, Agricultura
Acta Agriculturæ Scandinavica
Acta Agriculturae Boreali-Sinica
Acta Agriculturae Nucleatae
Acta Agriculturae Scandinavica
Acta Agriculturae Scandinavica. Section B, Soil and Plant Science
Acta Agriculturae Shanghai
Acta Agriculturae Universitatis Henanensis
Acta Agriculturae Universitatis Pekinensis
Acta Agriculturae Universitatis Zhejiangensis
Acta Agriculturae Zhejiangensis
Acta Agrobotanica
Acta Agronomica Hungarica
Acta Agronomica Sinica
Acta Biologiae Experimentalis Sinica
Acta Biotheoretica
Acta Botanica Boreali-Occidentalia Sinica
Acta Botanica Indica
Acta Botanica Neerlandica
Acta Botanica Sinica
Acta Botanica Yunnanica
Acta Facultatis Rerum Naturalium Universitatis Comenianae, Physiologia Plantarum
Acta Horticulturae
Acta Horticulturae Sinica
Acta Meteorologica Sinica
Acta Microbiologica Sinica
Acta Ovariensis
Acta Pedologica Sinica
Acta Physiologiae Plantarum
Acta Phytophylacica Sinica
Acta Phytophysiologica Sinica
Acta Scientiarum Naturalium Universitatis Normalis Hunanensis
Acta Societatis Botanicorum Poloniae
Acta Universitatis Agriculturalis Boreali-Occidentalis
Acta Veterinaria Scandinavica
Actualidades Regional - Instituto Colombiano Agropecuario
Advances in Bioclimatology
Advances in Plant Sciences
African Journal of Agricultural Sciences
Afro-Asian Journal of Nematology
Agrarwirtschaft
Agrekon
Agribiological Research
Agricoltura Mediterranea
Agricultura Técnica (Santiago)
Agricultura Tropica et Subtropica
Agricultura, Revista Agropecuaria
Agricultural and Biological Chemistry
Agricultural and Forest Meteorology
Agricultural Economics
Agricultural Engineer
Agricultural Engineering Today.
Agricultural Mechanization in Asia, Africa and Latin America
Agricultural Research Journal of Kerala
Agricultural Research Review
Agricultural Reviews (Karnal)
Agricultural Science Digest (Karnal)
Agricultural Science in Finland
Agricultural Situation in India
Agricultural Systems
Agricultural Water Management
Agriculture and Horticulture
Agriculture International
Agriculture Series
Agriculture, Ecosystems & Environment
Agrivita
Agro Food Industry Hi-Tech
Agro Sur
Agrochimica
Agrodok
Agroforestry Systems
Agroforestry Today
Agrokémia e Talajtan
Agrokhimiya
Agronomía Costarricense
Agronomie
Agronomie Tropicale
Agronomy and Soils Departmental Series - Alabama Agricultural Experiment Station
Agronomy Journal
Agropedology
Agrotecnia de Cuba
AIAS Occasional Publication
Al Awamia
Alimentos e Nutrição
Alternativ Odling
American Journal of Botany
American Potato Journal
Anadolu
Anais da Sociedade Entomologica do Brasil
Analele Institutului de Cercetări pentru Cereale şi Plante Tehnice, Fundulea
Anales de Biología
Analytical Biochemistry
Anhui Agricultural Science
Annales Agriculturae Fenniae
Annales de l'Institut National Agronomique El-Harrach
Annales des Sciences Naturelles, Botanique et Biologie Végétale
Annales du Tabac. Section 2
Annales Universitatis Mariae Curie-Skłodowska. Sectio E, Agricultura
Annali dell'Istituto Sperimentale per il Tabacco
Annali dell'Istituto Sperimentale Agronomico
Annali della Facoltà di Scienze Agrarie della Università degli Studi di Napoli, Portici
Annals of Agricultural Research
Annals of Agricultural Science (Cairo)
Annals of Agricultural Science, Moshtohor
Annals of Applied Biology
Annals of Arid Zone
Annals of Bangladesh Agriculture
Annals of Biology
Annals of Biology (Ludhiana)
Annals of Botany
Annals of Plant Physiology
Annals of Warsaw Agricultural University SGGW, Agriculture (Agricultural Engineering)
Année Biologique
Annual Review of Plant Physiology and Plant Molecular Biology
Anzeiger für Schädlingskunde, Pflanzenschutz, Umweltschutz
Applied and Theoretical Electrophoresis
Applied Engineering in Agriculture
Applied Geography (Sevenoaks)
Applied Microbiology and Biotechnology
Applied Plant Science
Arab Journal of Plant Protection
Archiv für Acker- und Pflanzenbau und Bodenkunde
Archiv für Phytopathologie und Pflanzenschutz
Archiv für Züchtungsforschung
Archives of Biochemistry and Biophysics
Archivos de Zootecnica
Archivos Latinamericanos de Nutrición
Arhiv za Poljoprivredne Nauke
Arid Land Geography
Arid Soil Research and Rehabilitation
Arkansas Farm Research
Arquivos di Biologia e Tecnologia
Arroz en las Americas
ASEAN Food Journal
Asian Environment
Aspects of Applied Biology
Assiut Journal of Agricultural Sciences
ATAC, Revista de la Asociación de Técnicos Azucareros de Cuba
Atmósfera

Australian Journal of Agricultural Research
Australian Journal of Experimental Agriculture
Australian Journal of Plant Physiology
Australian Journal of Soil Research
Avance Agroindustrial
Bangladesh Journal of Agricultural Research
Bangladesh Journal of Agricultural Sciences
Barley Genetics Newsletter
Bayerisches Landwirtschaftliches Jahrbuch
Bayerisches Landwirtschaftliches Jahrbuch, Sonderheft
Beijing Agricultural Sciences
Beiträge zur Biologie der Pflanzen
Beiträge zur Tabakforschung International
Beiträge zur Tropischen Landwirtschaft und Veterinärmedizin
Berichte der Gesellschaft für Pflanzenbauwissenschaften
Berita - Pusat Penelitian Perkebunan Gula Indonesia
Better Crops with Plant Food
Betteravier (Bruxelles)
Bharatiya Sugar
Bhartiya Krishi Anusandhan Patrika
Biblioteczka wiadomości IMUZ
Bio/Technology
Biochemical and Biophysical Research Communications
Biochemical Journal (London)
Biochemical Society Transactions
Biochemical Systematics and Ecology
Biochemie und Physiologie der Pflanzen
Biochemistry and Cell Biology
Biochimica et Biophysica Acta, General Subjects
BioEssays
Biological Agriculture & Horticulture
Biology and Fertility of Soils
Biology Bulletin of the Russian Academy of Sciences
Biology of the Cell
Biomedica Biochimica Acta
Biometrical Journal
Bioresource Technology
Bioscience
Bioscience, Biotechnology and Biochemistry
Biotechnologia Aplicada
Biotechnology and Bioengineering
Biotechnology Letters
Bioved
Biovigyanam
Biuletyn Informacyjny Przemysłu Paszowego
Biuletyn Instytutu Hodowli i Aklimatyzacji Roślin
Biuletyn Instytutu Ziemniaka
Biuletyn Warzywniczy
Bodenkultur
Boletim de Pesquisa - Empresa Goiana de Pesquisa Agropecuária
Boletim Técnico - Copersucar
Boletim Técnico - Empresa Catarinense de Pesquisa Agropecuária
Botanica Acta
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Botanical Bulletin of Academia Sinica
Botanical Gazette (Chicago)
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Buletini i Shkencave Bujqësore
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Bulletin de la Société Botanique de France, Actualités Botaniques
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Bulletin of Faculty of Agriculture, University of Cairo
Bulletin of Mathematical Biology
Bulletin of Taichung District Agricultural Improvement Station
Bulletin of the Faculty of Agriculture, Tottori University
Bulletin of the Hokuriku National Agricultural Experiment Station
Bulletin of the Japan Association of Agricultural Librarians and Documentalists
Bulletin of the Kyushu National Agricultural Experiment Station
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Bulletin of the National Institute of Agrobiological Resources
Bulletin of the Research Institute for Bioresources, Okayama University
Bulletin of the Shikoku National Agricultural Experiment Station
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Bulletin of the Tobacco Research Institute, Taiwan Tobacco & Wine Monopoly Bureau
Bulletin of the Tohoku National Agricultural Experiment Station
Bulletin SROP
Bureau of Rural Resources Bulletin
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Canadian Agricultural Engineering
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Canadian Journal of Microbiology
Canadian Journal of Plant Science
Canadian Journal of Soil Science
Cassava Newsletter
Cellular and Molecular Biology (Oxford)
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Centro Azúcar
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Chinese Journal of Zoology
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Ciencias de la Agricultura
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Científica (Jaboticabal)
Circular Técnica - Centro de Pesquisa Agropecuária dos Cerrados
CMU Journal of Science
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Emirates Journal of Agricultural Sciences
Energia na Agricultura
Entwicklung + Ländlicher Raum
Environment and Ecology
Environment International
Environmental and Experimental Botany
Environmental Conservation
Environmental Entomology
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Environmental Science & Technology
Environmental Toxicology and Chemistry
Ethiopian Journal of Agricultural Science
Euphytica
Eurasian Soil Science
European Journal of Biochemistry
Eurosoya
Experimental Agriculture
Extension Bulletin - ASPAC, Food & Fertilizer Technology Center
FABIS Newsletter
Fagopyrum
FAO Plant Protection Bulletin
Farming Systems
FEBS Letters
Feddes Repertorium
Fehérje és Biotermék
Feldwirtschaft
Fertiliser News
Fertilizer Research
Fett Wissenschaft Technologie
Field Crops Research
Fitopatología Colombiana
Fitopatología Venezolana
Fiziologiya i Biokhimiya Kul'turnykh Rasteniĭ
Fiziologiya Rasteniĭ
Fluoride
Folia Microbiologica
FONAIAP Divulga
Food and Agricultural Immunology
Food Chemistry
Förderungsdienst
Fragmenta Herbologica Jugoslavica
Fujian Agricultural Science and Technology
Functional Ecology
Fungicide and Nematicide Tests
Gansu Nongye Daxue Xuebao
Gartenbauwissenschaft
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Grassland of China
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Grüne
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Guangdong Agricultural Science
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Hassadeh
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Hoja Informativa - INTA Manfredi
Horticultura Brasileira
Horticultural Journal
Horticulturist
HortScience
HRC, Journal of High Resolution Chromatography
IAR Newsletter of Agricultural Research
IDRC Manuscript Reports
IEEE Transactions on Geoscience and Remote Sensing
IIHR News
Illinois Research
Indian Agriculturist
Indian Botanical Reporter
Indian Farming
Indian Forester
Indian Journal of Agricultural Engineering
Indian Journal of Agricultural Research
Indian Journal of Agricultural Sciences
Indian Journal of Agronomy
Indian Journal of Applied and Pure Biology
Indian Journal of Biochemistry & Biophysics
Indian Journal of Ecology
Indian Journal of Experimental Biology
Indian Journal of Genetics & Plant Breeding
Indian Journal of Hill Farming
Indian Journal of Horticulture
Indian Journal of Mycology and Plant Pathology
Indian Journal of Plant Physiology
Indian Journal of Plant Protection
Indian Journal of Pulses Research
Indian Journal of Weed Science
Indian Phytopathology
Indian Review of Life Sciences
Indian Sugar
Indonesian Agricultural Research & Development Journal
Indonesian Journal of Tropical Agriculture
Informatore Agrario
Informe Técnico
International Agrophysics
International Arachis Newsletter
International Chickpea Newsletter
International Journal of Biometeorology
International Journal of Climatology
International Journal of Environmental Analytical Chemistry
International Journal of Environmental Studies
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International Journal of Radiation Applications and Instrumentation. Part A, Applied Radiation and Isotopes
International Journal of Remote Sensing
International Journal of Tropical Agriculture
International Journal of Tropical Plant Diseases
International Journal of Water Resources Development
International Pigeonpea Newsletter
International Rice Research Newsletter
International Sugar Journal
Internationale Agrarindustrie Zeitschrift
Investigación Agraria
Investigación Agraria, Economía
Investigación Agraria, Producción y Protección Vegetales
Investiya Timiryazevskoĭ Sel'skokhozyaĭstvennoĭ Akademii
Irish Journal of Agricultural and Food Research
Irrigation and Drainage Systems
Irrigation Science
Irrigazione e Drenaggio
Israel Journal of Botany
ITEA Producción Vegetal
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The Organization
CAB International (CABI) is an international, inter-governmental organization. It is owned by its member governments; these currently number 34, but membership is open to any others wishing to participate. Established in 1928, the organization provides information, scientific and development services for agriculture and allied disciplines throughout the world.

Information Services
The main task of the Information Services, located at the CAB International Centre (CABIC) at Wallingford, is the creation of a bibliographic database (CAB ABSTRACTS) of research on agriculture, forestry, the environment, applied social sciences and aspects of human medicine.

Relevant scientific and technical literature is acquired worldwide for abstracting and indexing by almost 100 scientists/linguists in five divisions:

Animal Health & Medical Parasitology
Animal Production & Human Nutrition
Crop Protection & Genetics
Crop Production
Natural Resources, Forestry & Economics

Further material is acquired and processed by collaborating or contracted organizations.

Abstract journals and electronic products derived from the database, and online access to it, provide unique sources of information for research scientists, development planners, educators and students.

The Information Services also publish primary journals and books, and offer training for information professionals, especially from developing countries.

Scientific Services
CABI's Scientific Services consist of four institutes and Library Services:

International Institute of Entomology
Acting Director, Prof. T. Jones, located at 56 Queen's Gate, London, and in the Natural History Museum.

International Mycological Institute
Director, Professor D.L. Hawksworth, located at Bakeham Lane, Egham, Surrey, TW20 9TY.

International Institute of Parasitology
Director, Dr R. Muller, located at Winches Farm, St Albans, Herts, AL4 0XU.

International Institute of Biological Control ,
Director, Dr J.K. Waage, has its headquarters at Silwood Park, Ascot and stations in Trinidad and Tobago, Switzerland, Pakistan, Kenya and Malaysia.

These Institutes provide an authoritative identification service for agricultural pests and other organisms, a biocontrol service, and conduct research, implement projects, and provide training in their fields of expertise.

Library Services
Manager, Mr C.J. Hamilton, have headquarters at Silwood Park, and operate document delivery and translation services.

Marketing and Development Services
MDS is responsible for the marketing of all CABI products and services, and for its development and training services. An important aspect is the establishment of effective partnerships with relevant development assistance agencies aimed at increasing the delivery of CABI services to developing countries.

Information Technology Services
ITS provide computing resources and services to all parts of CABI. A central computing facility is maintained with telecommunications access to seven remote sites, including the four CABI Institutes. CABIC is served by a modern Local Area Network which provides access to the computers, and by advanced office automation facilities. The staff include database production personnel, systems analysts, programmers and computer operators. The principal systems are for the production of the CAB ABSTRACTS database and associated functions, plus accessions control, subscription management and electronic publishing.

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